HYPER10-TT

1/10TH SCALE TRUGGY INSTRUCTION MANUAL

- 3 OIL FILLED DIFFS
- PIVOT BALL SUSPENSION
- ALL STEEL DRIVE TRAIN
- ALUMINUM THREADED SHOCKS
- 6061 ALUMINUM CHASSIS
- ADJUSTABLE TURNBUCKLES

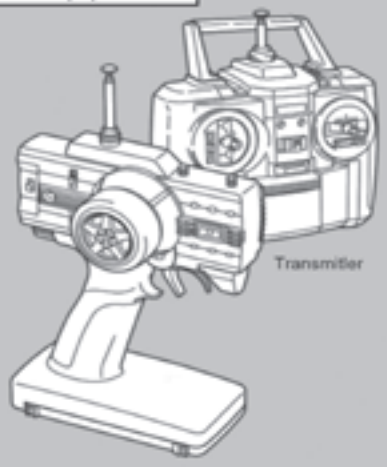
OFNA Racing

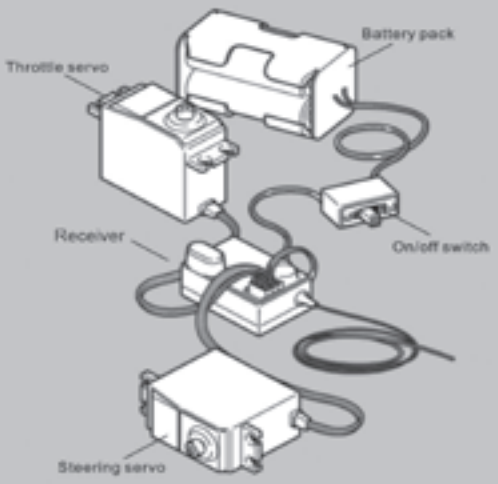
HYPER TT NITRO

1/10 HYPER TRANSFORMER TRUCK

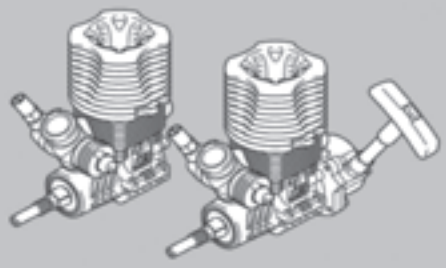
Required

Radio control equipment set



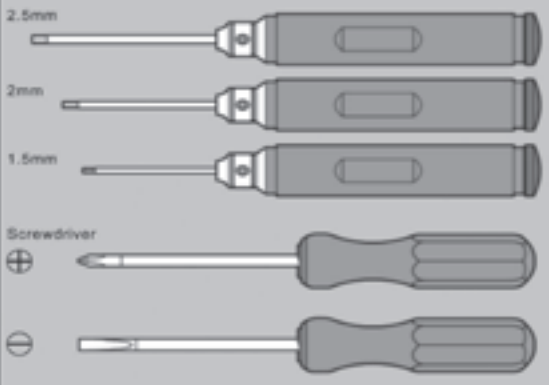


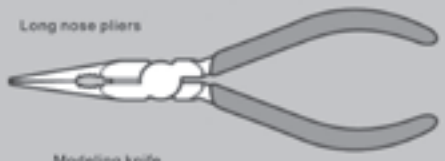
Hyper engine series

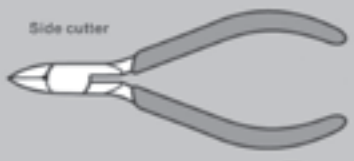


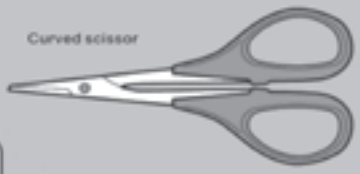
Required for engine starting

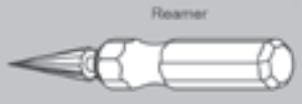
Tools recommended











Included items

2.4GHz Radio
INSTRUCTION MANUAL

DIRECT SEQUENCE 2.4GHz RADIO

The new 2.4 GHz Radio from OFNA brings you the newest technology in remote control radios, direct sequence. This new technology helps you keep a stronger signal giving you more control. Equipped with three channels and a throttle fail safe, this radio gives you dependability and frees you from having to use crystals or having to wait for an open channel.

RADIO FEATURES

- 2.4GHz TECHNOLOGY
- DIRECT SEQUENCE SPREAD SPECTRUM TECHNOLOGY(DSSS)
- 3-CHANNEL, LED EDITION
- DIGITAL STEERING/THROTTLE TRIMS
- DIGITAL STEERING DUAL RATES
- THROTTLE FAIL SAFE
- CHARGING JACK FOR RECHARGEABLE NiMH BATTERIES (BATTERIES NOT INCLUDED)
- CREATES UNBREAKABLE LINK BETWEEN THE TRANSMITTER AND THE RECEIVER
- BUILT IN TRANSMITTER ANTENNA PREVENTS BENDING AND DAMAGE
- REQUIRES 8 AA BATTERIES!
- LOW BATTERY INDICATOR (LED)

OFNA Racing

LED Edition

2.4G DSSS Technology

3-Channel 2.4G Radio Control System

INSTRUCTION MANUAL

- **Before using, read this manual carefully**

CAUTION

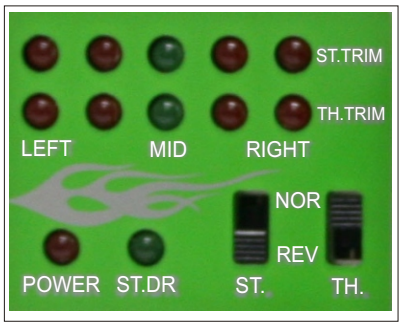
- To use your Radio with your models correctly and safely, read this manual carefully and keep it in a safe place for future reference.

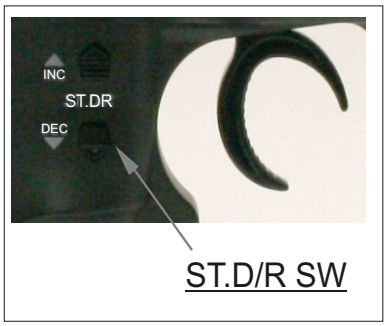
Warning:

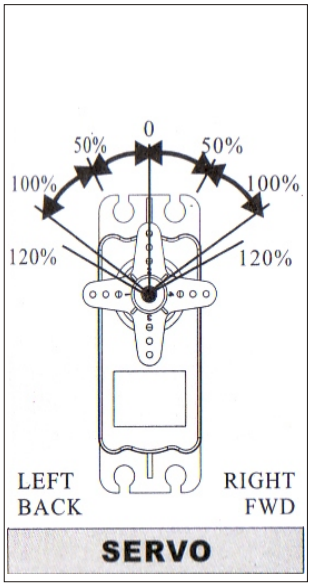
1. This product is only equipped for radio controlled cars;
2. The usage of this product should be approved by local law or regulations;
3. We will not be responsible for the damages caused by unauthorized modification, adjustment or replacement of parts on this product;
4. The manual may be change without prior notice. Please contact us if you have any corrections or clarifications that should be made in the manual;

- Before turning on the transmitter, make sure the transmitter batteries are fresh. The voltage of the transmitter batteries is never lower than 9.6V, and please check and confirm that the servos are all well and properly connected.
- Keep the radio system away from moist, high temperature and strong vibrations. Do not clean radio with any solvent.
- Make sure antenna does not touch anything when power switch is turned on. Do not leave this radio in reach of small children.
- Please use this product according to your local laws and regulations, we are not responsible for any incidents or damages.

Steering Dual Rates Setup







•DEFINITION:

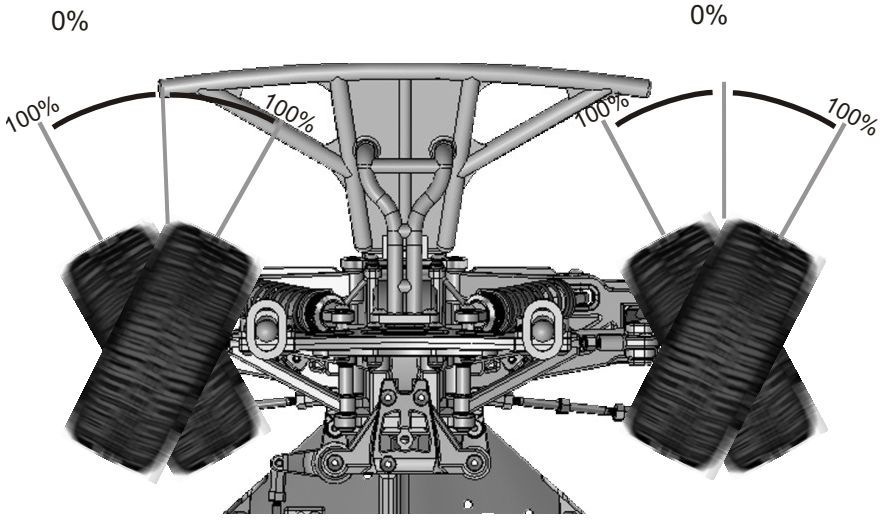
Steering Dual Rate (ST. DR): Is the adjustment that allows the dual rate value (maximum servo travel) to be increased (INC) or decreased(DEC) with in a range of 0% to 100% of the steering servo. This functions very useful in a race conditions as it allows you to tailor the steering radius and sensitivity for the current track conditions.

•ADJUSTMENT:

1. **Press and hold the "INC" (Increase) button until the LED on the "ST.DR" turn solid indicating the maximum turning radius or value of 100%.**
2. **Press and hold the "DEC" (Decrease) button until the LED on the 'ST.DR" goes dim or out to reach the minimum turning radius or value 0%.**

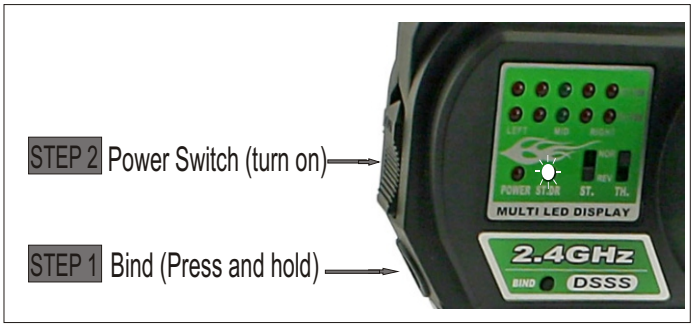
CHECKING YOUR DUAL RATE

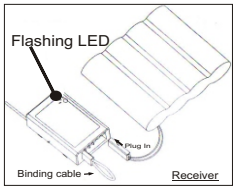
•To Check Your Dual Rate: First turn your radio **"ON"** then turn **"ON"** your vehicle. Check your steering on your radio by turning left and right several times. Now turn your steering wheel all the way to the left or right whichever you choose and hold it their while pushing the **"DEC"** (decrease) button on the **"ST-DR"** and hold it down, you should see that the wheel on your vehicle decrease in radius and that the **LED** on **"ST-DR"** will start blinking and slowly dim. Now to increase the dual rate turn the wheel left or right all the way and hold it while pushing the **"INC"** button this will increase the radius of the wheel and the **LED** on **ST-DR** will start blinking slowly and turning solid indicating that the **"Dual Rate"** is at 100% . When running your vehicle try to run the **"Dual Rate"** at maximum radius (100%). Then if you have too much steering then decease as needed.



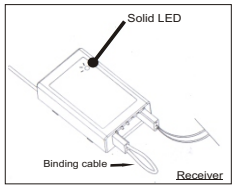
2.4Ghz Binding

•Press and hold the bind button on the front of the transmitter while turning ON the power switch button until the (ST.DR) LED Flashes.



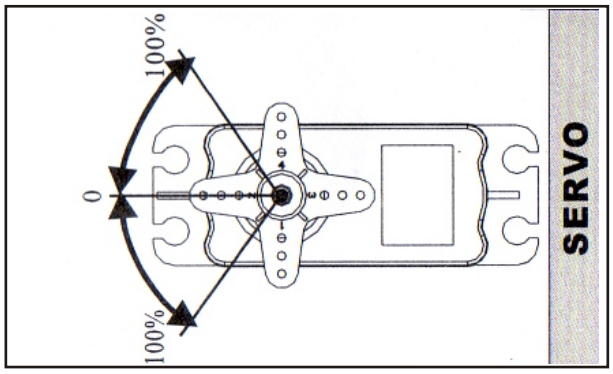


2. With the system hooked up as shown, insert the binding cable in the charging plug receptacle. Turn on the power of the receiver (4.8 - 5.6V), and now the LED should be flashing indicating that the receiver is ready to bind.



3. The LED should go solid, indicating the system has connected. Now turn off the receiver and remove the binding cable.

AUX Channel Function (CH3)



•This switch control the transmitter's third channel. A servo plugged in this Channel 3 will move to full travel in one direction when the switch is in the **"AUX"** position, then move the switch to the **"OFF"** position the servo will move in the opposite position . This channel can be use to turn on all sort of things in your vehicle. For example, lights, on board camera etc..... I

Handling Procedure For Batteries

•Battery Replacement

1) Remove the battery cover from the transmitter by sliding it in the direction of the arrow.
2) Remove the used batteries.
3) Load the new 8 AA size alkaline, or Nickel Metal Hydride (NimH) rechargeable batteries, and pay very close attention to the polarity marking on the batteries.
4) Slide the battery cover back onto the case.
5) If you use rechargeable batteries OFNA make this charger **10210** it will charge your Transmitter 9.6v at 100mA and Receiver battery 4.8v-6v at 100mA at the same time.

•Caution

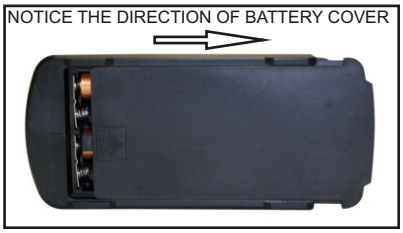
Always make sure you reinsert the batteries are in the correct polarity order. If the batteries are loaded incorrectly, the transmitter may not work or can be damaged.

When the transmitter is not used for a long period of time remember to remove the batteries. If the batteries do happen to leak, clean the batteries case and contacts thoroughly and make sure the contacts are free of corrosion.

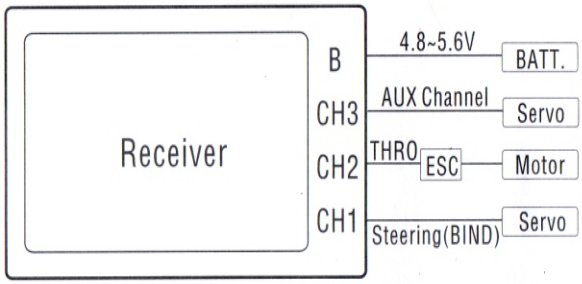
•Battery Disposal

Some countries and state require special handling of used batteries, please contact the agencies responsible for recycling hazardous wastes in your local area.

•Battery low voltage alarm indicator. **LED** Power light will flash.



Receiver Connection Diagram



Specification Data

•Transmitter

Channels: 3
Frequency: 2.4Ghz
Power DC: 9.6V - 12V
Measurement: 280 x 190 x 85mm (Packing Meas.)
Net Weight: 510g

•Receiver

Channels: 3
Frequency: 2.4Ghz
Power DC: 4.8 - 5.6V
Net Weight: 13.5g

B4218 ESC Instruction and Specification

WARNING ELECTRIC MOTOR AND ESC ARE EXTREMELY HOT AFTER RUNNING, CAN CAUSE SERIOUS INJURY, HANDLE WITH CARE

- *Special Features:*

1. Exclusive feature for this model. Auto set to neutral position on the throttle. No programming or adjustment is required. Just one second after powering on the system, the speed control will beep indicating that is has auto set to the neutral position *(while the speed control is setting the neutral position do not touch the throttle trigger, leave it at neutral).*

Fig.1

Fig.2

Fig.3

2. Thermal Protection Function of The ESC B4218. If the speed control over heats, the Thermal Protection function will be activated. Once the "TP" is activated, the throttle will rapidly turn on and off and acceleration becomes erratic. Stop driving immediately, do not drive the car until the Speed Controller cools down.
3. LED indication, two colors Green/Red
4. Large sturdy aluminum heatsink for maximum heat dispersing.

CAUTION

- ***THIS ESC DO NOT HAVE "LVC" (Low Voltage Cutoff):*** What this means is this ESC or speed control do not have the circuitry to detect the low voltage of the Lipo or Lithium Polymer battery to prevent the battery from discharging too low during use, which would make the pack unusable and unstable. The cutoff is usually around 6.25 volts or 3.0 volts per cell. Once a Lipo discharges below 3.0 volts per cell, there is a chance that the battery will catch on fire. Use Lipo batteries at your own discretion OFNA is not responsible for misused and damage to personal property and injuries.

- *Specification:*

1. Input Voltage: 6~8.4V *6-7cell NiMh or NiCd*
2. Power IC 150A at (77F), 100A at (212F)
3. Supported motor >12T - 27T Mabuchi Motor
4. Factory default Spec: Output Continuous/Peak Current 70A/120A(10sec)
5. Over temperature protection at 200F.
6. BEC Voltage 5V at 1Amp
7. FET internal: forward/reverse.....0.0025/0.005 ohm
8. Size:36 x 35 x 30.5mm
9. Weight.....53.7g/1.89oz

FIG. 4

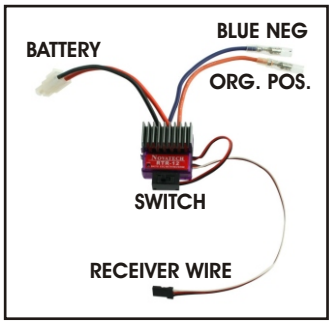
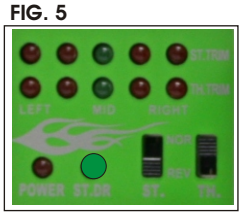


FIG. 5



- *Throttle Neutral and ESC setting:*
  1. Switch on the transmitter.
  2. Set the throttle trim to the middle or the green LED on your Transmitter "TH"
  3. Switch on the power of the ESC
  4. The ESC will sound 3 beeps (DO RE MI) confirmation, indicating the ESC is ready & the throttle is at neutral position.
- *Operating Instructions:*
  1. Connect the ESC wires to the motor. (Blue is neg and Orange is Positive See Fig. 5)
  2. Plug the receiver wire into the throttle or #2 channel on the receiver
  3. Ventilation - Mount the ESC in a location that has good ventilation & isolate it from vibration and shock. Ventilation is extremely important for cooling the ESC & Motor.
  4. Plug in your battery, before turning on the ESC, make sure your transmitter is on & the throttle trigger is at the neutral position. *(See Fig 2)*
  5. Turn on your ESC, the LED light on the ESC will flash red then goes to solid green and a tone will sound indicating that the ESC is set and ready to go.

FOR ADDITIONAL HELP YOU CAN CALL OFNA TECH SUPPORT AT (949)586-2910 OR GO TO WWW.OFNA.COM/GUIDE.HTML FOR HOW TO VIDEO

Warranty Period

OFNA warranties that the Products purchased (the “Products”) will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

Limited Warranty

(1) This warranty is limited to the original Purchaser (”Purchaser”) and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from and authorized OFNA dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, OFNA reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(2) Limitations - OFNA MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER’S INTENDED USE.

(3) Purchaser Remedy - OFNA sole obligation hereunder shall be that OFNA will, at its option, (1) repair or (2) replace, any Product determined by OFNA to be defective. In the event of a defect, these are the Purchaser’s exclusive remedies. OFNA reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of OFNA. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than OFNA. Return of any goods by Purchaser must be approved by OFNA before shipment.

Damage Limits

OFNA SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in an event shall the liability of OFNA exceed the individual price of the Product on which liability is asserted. As OFNA has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Safety Precautions

This is a sophisticated hobby Product and not a toy, It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury of damage to the Product or other property. This Product is not intended for use by children without direct adult supervision. The Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

FOR ADDITIONAL HELP YOU CAN CALL OFNA TECH SUPPORT AT (949)586-2910 OR GO TO WWW.OFNA.COM/GUIDE.HTML FOR HOW TO VIDEO

TO: OFNA TECHNICAL SUPPORT

7 VANDERBILT, IRVINE, CA 92618

TODAY'S DATE: month_____day_____

1. Print out form.
2. Fill out the form completely.
3. Make a copy of purchase receipt. All replacements/repairs will not be processed, unless accompanied by proof that item(s) was purchased.
4. Call OFNA technical support at (949)586-2910 for assistance.

---

1. Your name

   _____

2. Your address:

   _____

   _____

3. Your Phone Number
   (_____)_____

4. Your e-mail address:

   _____

5. Summary of your problem *(check lines):*
   a_____part(s) is missing from my kit
   b_____part(s) seems to be defective
   c_____other problem

6. Name of kit / part *(on tag or end of box)*

   _____

7. Kit/part number *(on tag or end of box)*

   _____

8. Purchased from *(store name)*

   _____

   a. Store phone: (_____) _____
   b. _____Item was a gift?

9. If a part is missing form the kit, circle the appropriate answers:

   a. Yes / No: Is kit box damaged?
   b. Yes / No: Factory Seal sticker was secure.
   c. Yes / No: I am the original owner.
   d. Yes / No: I have contacted the dealer first.

---

10. Describe your issue fully and include any part numbers:

    _____
    _____
    _____
    _____
    _____

Failure to fill out this form completely will cause a delay in processing!

11. Affix proof of purchase on second page. **All replacement / repairs will not be processed unless accompanied by proof that item(s) was purchased.**

Can't find Proof of Purchase?

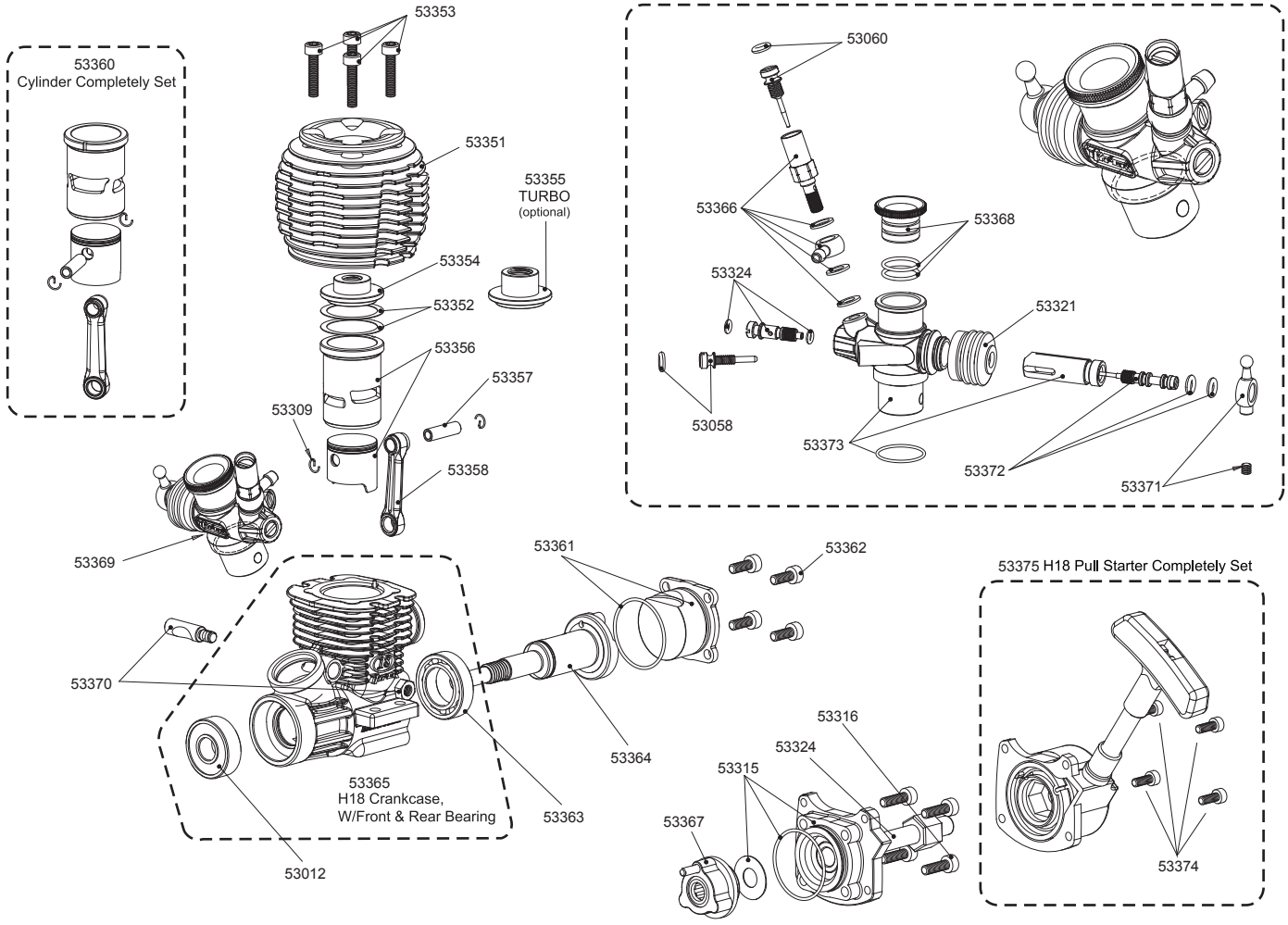
A. If you lost the store receipt, ask the store if they will give you a new one.
B. We do not accepted the following as a substitute: Hand written receipts, **ebay** transaction numbers/forms or credit card statements.

12. Send in form with your defective product, as instructed to do by the Ofna technician,(Name)_____ you spoke to. Ph:(949)586-2910 Fax: (949)583-9272

Hyper18 HIGH POWER ENGINE

Nitro Engine Exploded View

Part # 53121



HYPER 18

53121 HYPER 18 SG W/PULLSTART					
OFNA	**DESCRIPTIONS**	**RETAIL**	**OFNA**	**DESCRIPTIONS**	**RETAIL**
53012	BEARING,FRONT 7x19x6mm	6.95	53358	CONNECTING ROD HYPER 18	27.95
53024	HEX AXLE, PULL START, HYPER	10.95	53359	SCREWS SET HYPER 18	9.95
53058	BARREL STOP SCREW, HYPER	4.95	53360	PISTON, SLEEVE, ROD COMBO H18	109.95
53060	MAIN NEEDLE AND SEAL, HYPER	5.95	53361	BACK COVER & O-RING HYPER 18	13.95
53309	CLIPS, G, 5PCS	1.95	53362	O-RING COMPLETE SET HYPER 18	7.95
53312	CAP SCREW 3x16mm (4PCS)	1.95	53363	BALL BEARING,12x21x5mm H18	23.95
53315	REAR COVER PULLSTART & O-RING	13.95	53364	CRANKSHAFT HYPER 10	39.95
53316	CAP SCREW 3x10mm (4PCS)	1.95	53365	CRANKCASE W/FR&RR BEARING H18	75.95
53318	SILICONE MANIFOLD SEAL	3.95	53366	MAIN NEEDLE HOUSING SET H18	14.95
53321	THROTTLE RUBBER COVER	3.45	53367	TURBO FAN & ONE WAY HYPER 18	29.95
53324	SUPPLY FUEL NOZZLE & O-RING	5.95	53368	CARB. RESTRICTOR HYPER 18	5.95
53351	HEAD, HYPER 18 ENGINE	34.95	53369	CARBURETOR COMPLETE HYPER 18	69.95
53352	HEAD BUTTON HYPER 18	2.95	53370	CARB LOCKING PIN HYPER 18	9.95
53353	HEAD CAP SCREWS 3x12mm H18	2.95	53371	THROTTLE BALL STUD HYPER 18	6.95
53354	HEAD BUTTON STANDARD HYPER 18	22.95	53372	LOW END NEEDLE HYPER 18	7.95
53355	HEAD BUTTON TURBO HYPER 18	24.95	53373	CARB BODY AND THROTTLE H18	34.95
53356	PISTON & SLEEVE HYPER 18	82.95	53374	CAP SCREWS 2.6x7mm FOR PS H18	2.95
53357	WRIST PIN & G CLIPS HYPER 18	5.95	53375	PULLSTART COMPLETE HYPER 18	39.95

OFNA
7 VANDERBILT
IRVINE, CA 92618
PHONE: (949) 586-2910
WWW.OFNA.COM
WWW.RCDEAL.COM

HYPER 18 ENGINE

PART # 53121

Thank you for purchasing a OFNA engine. We appreciate your choice and know you will enjoy running it. Please note that the OFNA information in engine box is subject to change without notice.

NEW ENGINE BREAK-IN

Your OFNA engine is extremely tight when the piston is at the top of the stroke and turning the crankshaft by hand. This is normal for a new ABC type engine. The piston and sleeve are matched for fit and the top of the sleeve is tapered for a tight fit. As you run your engine, this tightness Should diminish. There is no cause for alarm, because as the engine warms up, the brass sleeve will expand faster than the aluminum piston and the engine will turn free.

As with any new engine, there are many high spots and tight fits in the matching process. High spots create hot spots that must be broke-in. Therefore, the break-in process is very important to provide good service by the engine. So, you must run the engine rich (COOL) for the first two tanks of fuel. We recommend using 20% O'Donnell 0R BYRON'S 2000 as break-in fuel. Other break-in type fuels or added oil is NOT needed. DO NOT OVER REV. THE THE ENGINE WHEN FIRST STARTING, this could break the rod, piston and over heat the sleeve. Let the engine run at low RPM for one tank to break-in connecting rod bearing before starting full break-in.

Break-in the engine in the car, by running the engine at a rich setting. Factory high end or master needle is 4 turn Out from all the way close. Run the car from a slow to fast speed with short bursts of speed. You need to build Little heat in the engine, but not too hot. In a rich setting, the engine will run cool. In the leaner setting the engine run Hot running hot is **NOT** good yet. Do not heat up the engine too much at this time. After about two (2) tank, turn the Master Needle Valve, clock wise, 1/8 of a turn leaner or clockwise. Keeping the fuel tank full, continue the process until you slowly turn the Master Needle Valve, 1/8 of turn each time, to a leaner point and in which the engine runs at high RPM and power and the master needle should be at 3-3.5 turn out from close, but still keeping The **MAX TEMP UNDER 250 DEGREES F.**

If you go over 250 degrees it is too lean of a setting and will over heat the engine and damage the piston. **Normal operating temperature is around 220 to 250 Deg.** Temperatures of 260 Deg. and above will damage Engine an shorten the life of the motor.

NEEDLE SETTINGS After break-in:

Master Needle Valve - **(High End)** Set at 3 to 31/2 turns from closed. Adjust this needle for maximum RPM and power without being too lean or too hot. Make sure you start at bottom of needle seat!!

Mid Range needle - The brass needle on the side of the carb. **DO NOT TOUCH.**

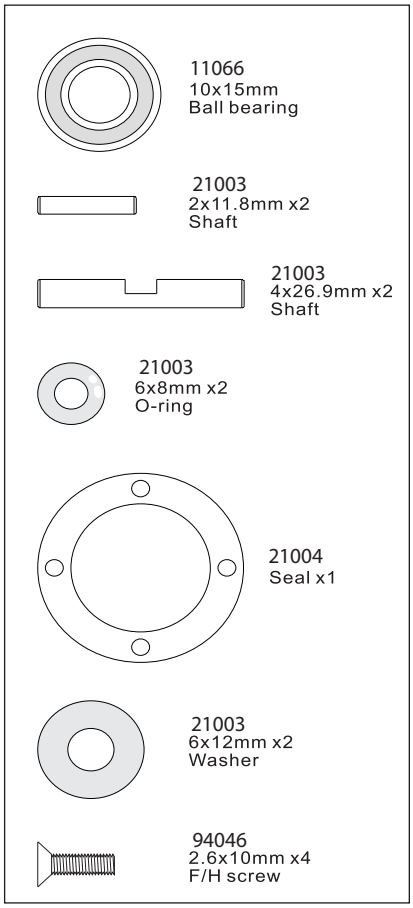
Side Carb. Needle (**Low Speed**) - This needle is in the center side of the carburetor where the blue boot is, provide Throttle response. It is not the idle adjustment. Set NEEDLE flush with the ball end. Turning in is Lean and Out is Rich. Do not adjust This needle until the Master Needle is set for power and top speed. This will only effect throttle response.

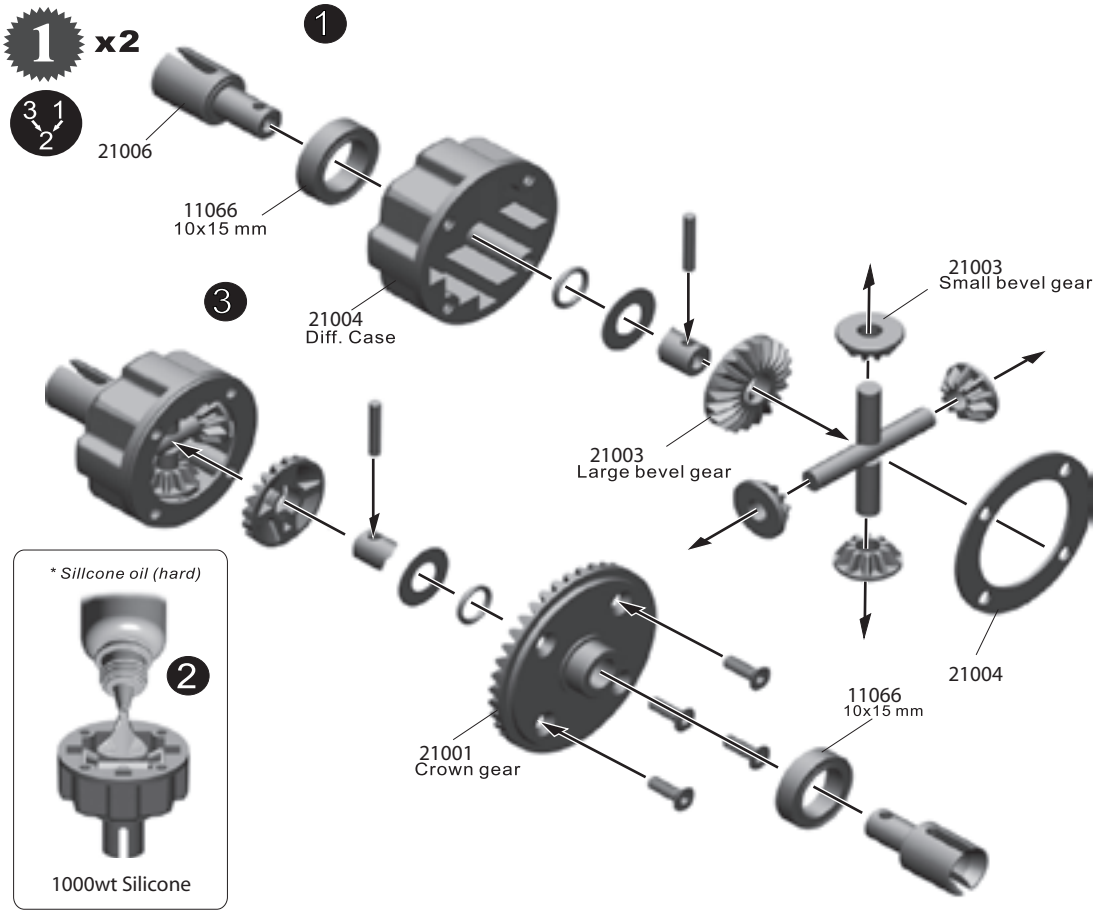
Barrel Stop Screws - Used for adjusting Idle: Set for 1/16th inch gap to start new engines. You can open more for faster idle.

OFNA/PICCO GLOW PLUG IS RECOMMENDED

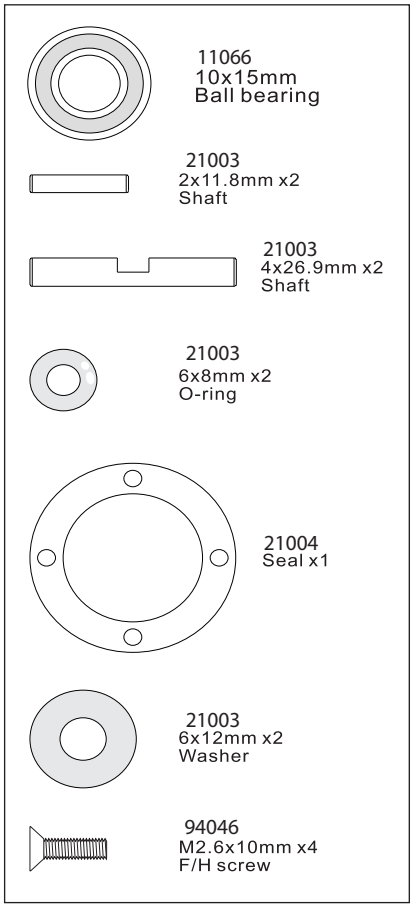
51010 - B4 STANDARD HOT
51011 - B5 STANDARD MEDIUM
51012 - B6 STANDARD COLD
51013 - T4 TURBO HOT
51014 - T5 TURBO MED
51015 - T6 TURBO COLD

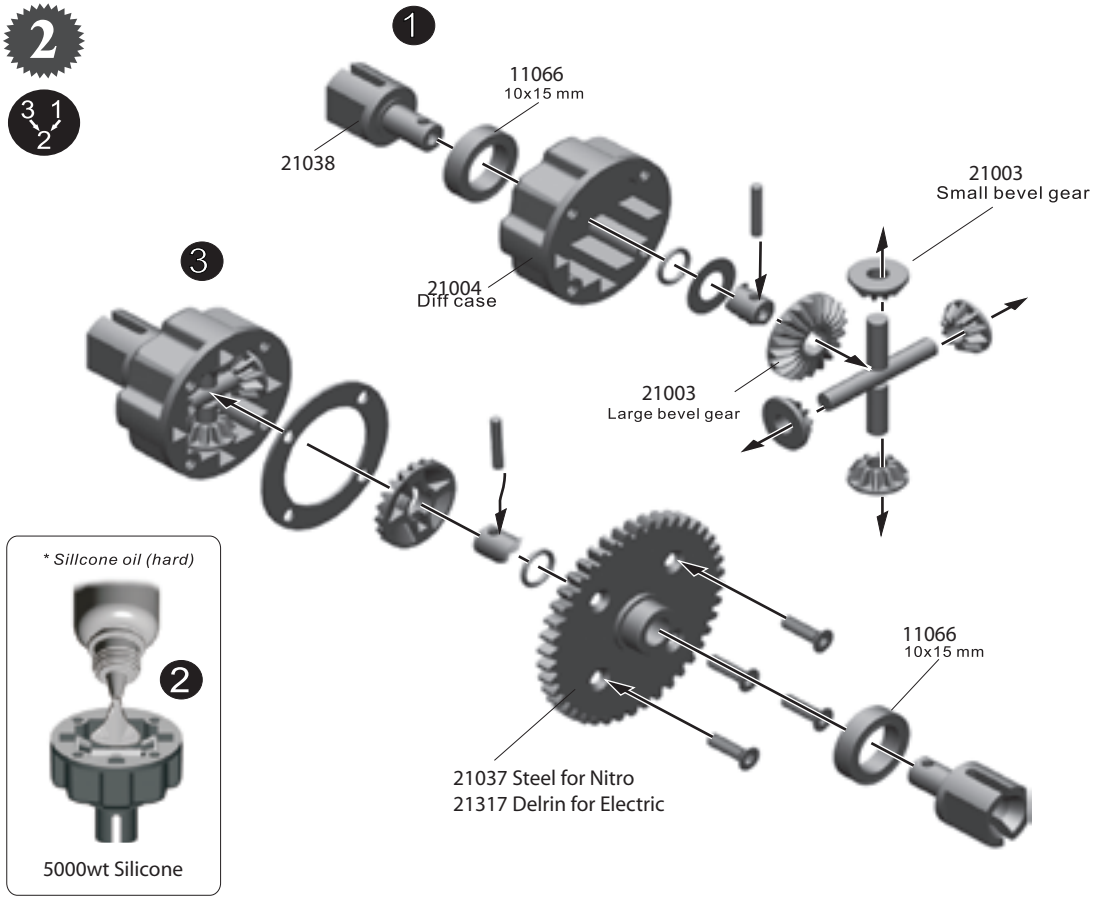
Assembly of Front/Rear Differential





Assembly of Center Differential





Assembly of Front/Rear Gear Box

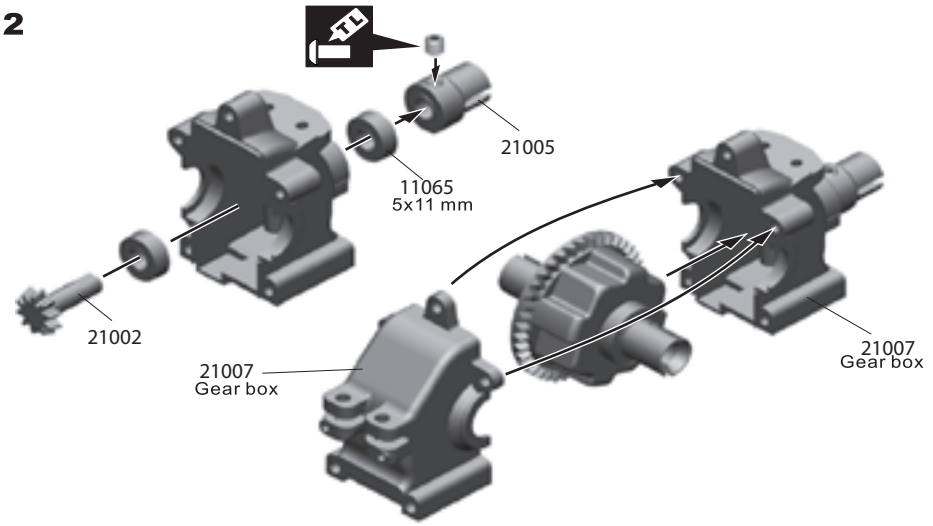
94034
4x4mm x2
Set screw

21005
Steel joint cup x2

21002
Drive pinion gear x1

11065
5x11mm
Ball bearing

3 x2



Assembly of Front Suspension Arms : Step1

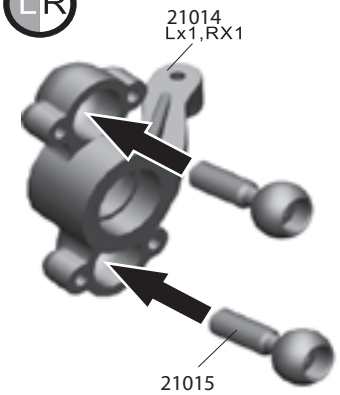
21015
Pillow ball x4

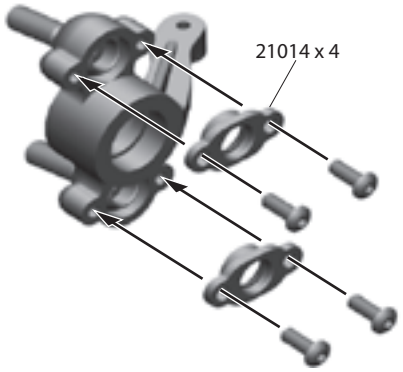
94002
3x8mm x4
Screw

22012
5.8mm x2
Ball

4

L R





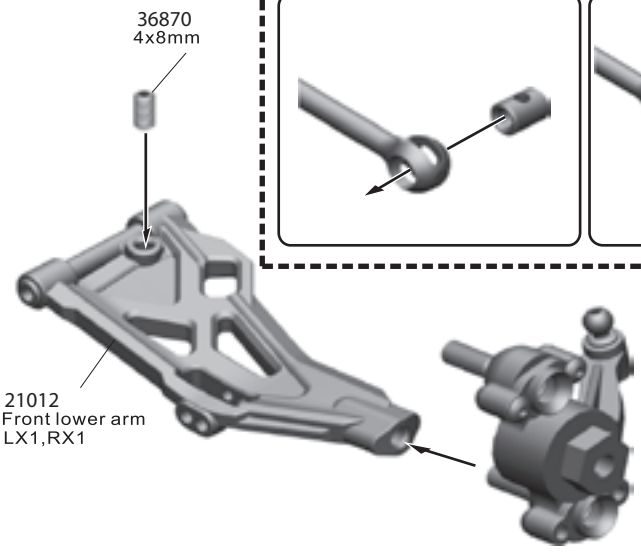
Assembly of Front Suspension Arms : Step2

21016
CVA Shaft x2

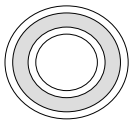
36870
4x8mm x2
Set screw

5

L R

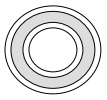


Assembly of Front Suspension Arms : Step3

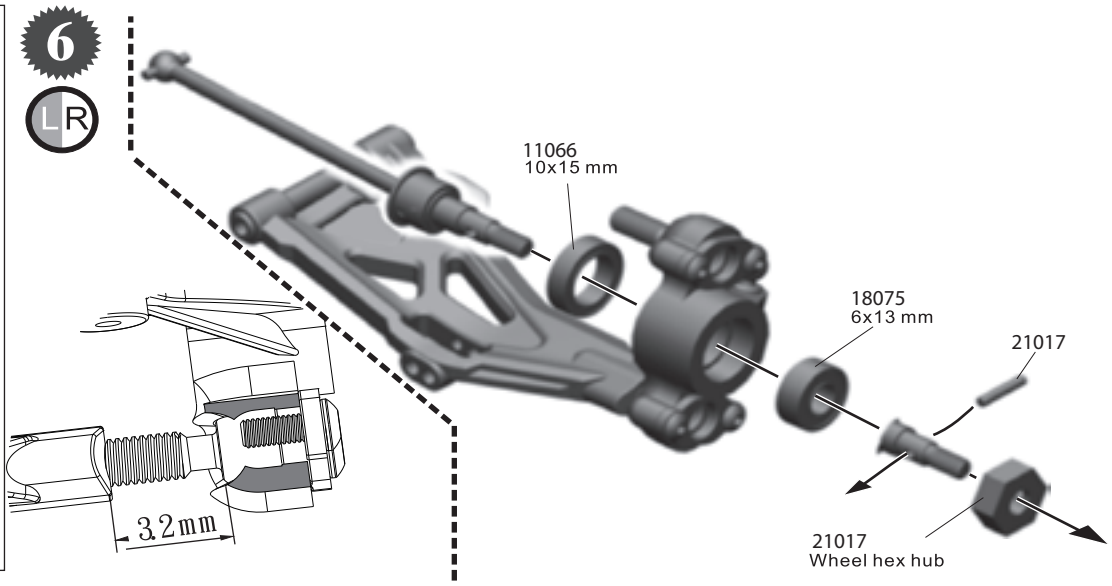


11066
10x15mm
ball bearing

21017
2x10.8mm x4
Shaft

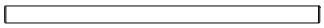


18075
6x13mm
ball bearing



Assembly of Front Suspension Arms : Step4

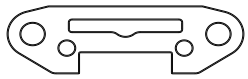
94043
3x35mm x2
Screw



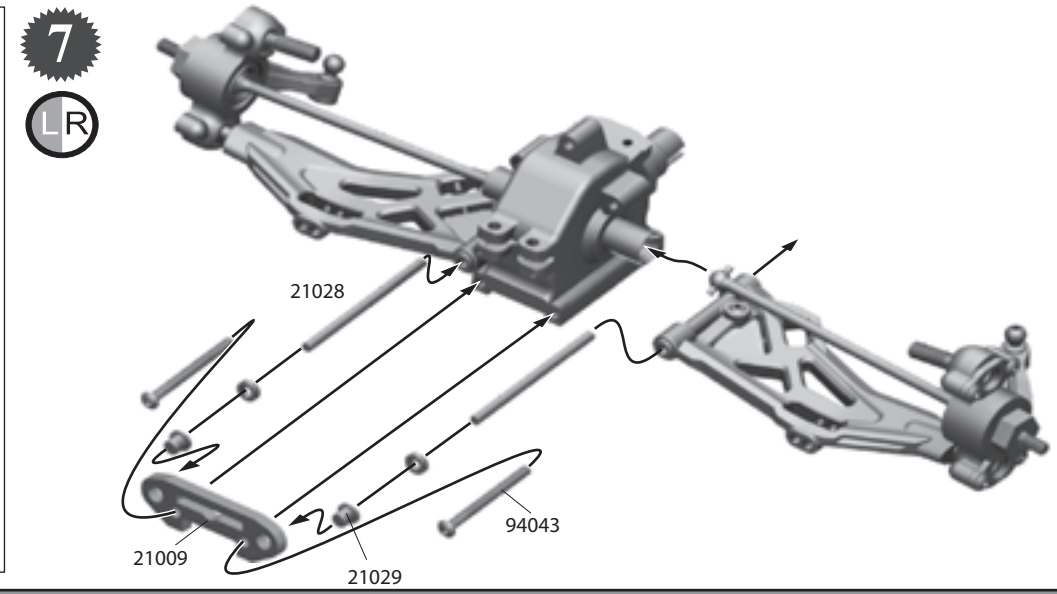
21028
3x51mm x4
Shaft

21029
Plastic shaft gasket x10

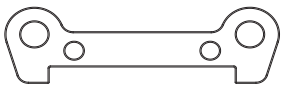
21029
3mm x2



21009
Front lower holder x1



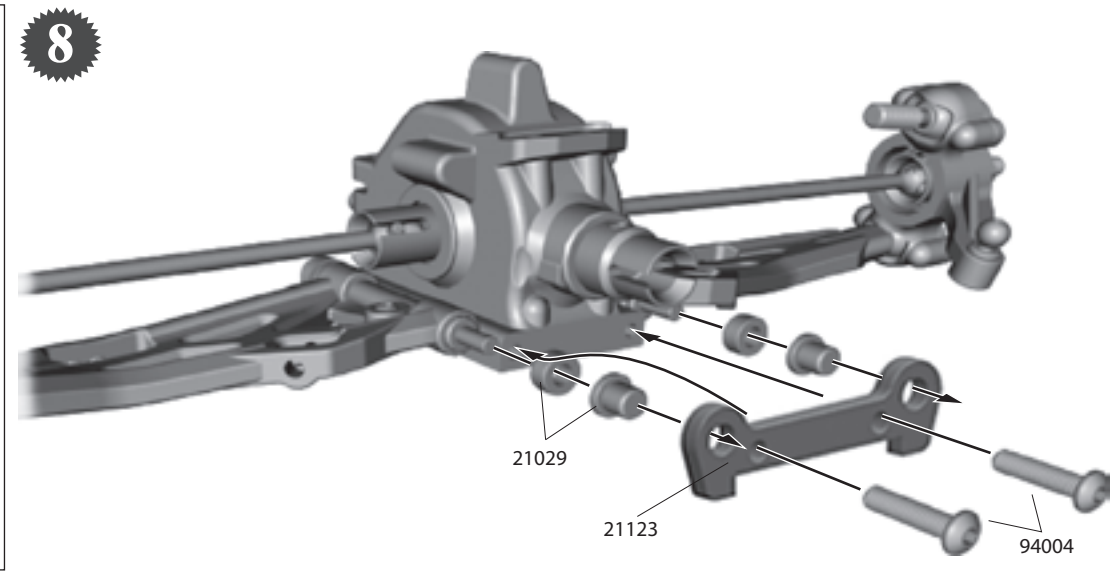
Assembly of Front Suspension Arms : Step5



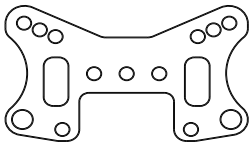
21123
F/R Alum suspension plate

94004
3x12mm x2
Screw

21029
3mm x2



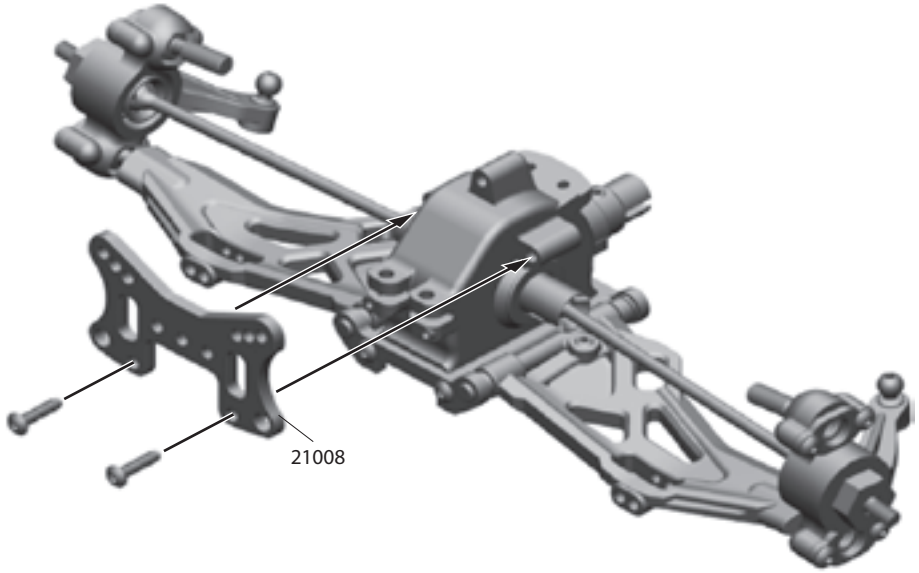
Assembly of Front Shock Tower



21008
Front shock tower

94005
3x15mm x2
Screw

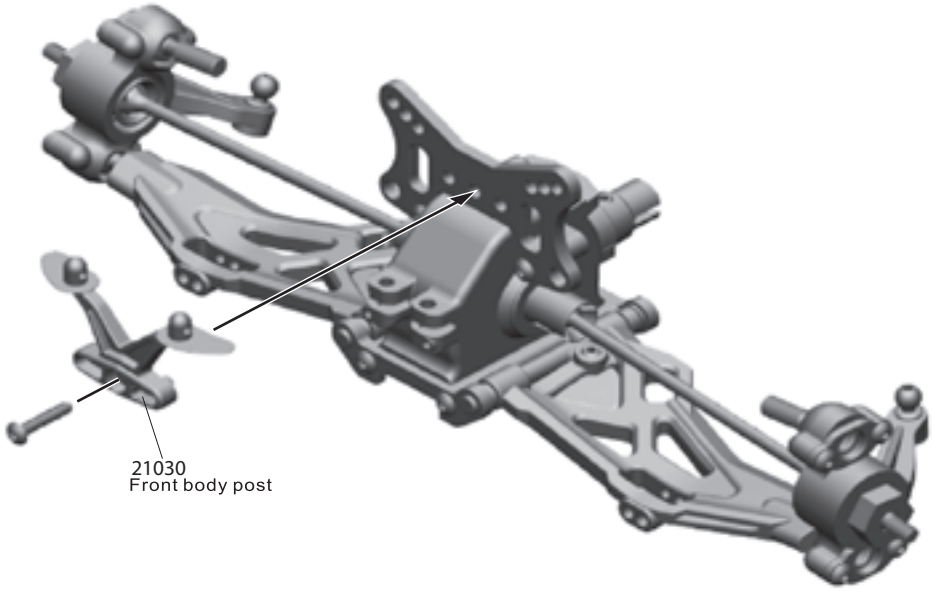
9



Assembly of Front Body Post

94005
3x15mm x1
Screw

10

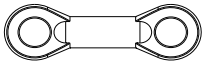


Assembly of Front Stabilizer : Step1

21018 x 4
5.8mm
Steel ball

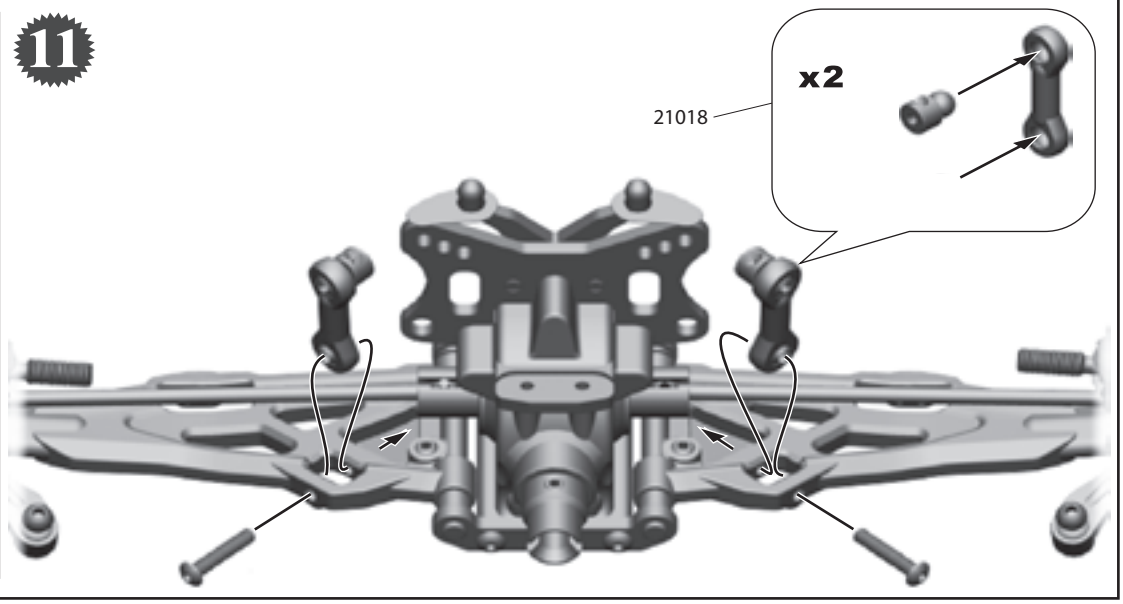
21018
Pivot ball collar x2

94005
3x15mm x2
Screw



21018
Ball end x2

11



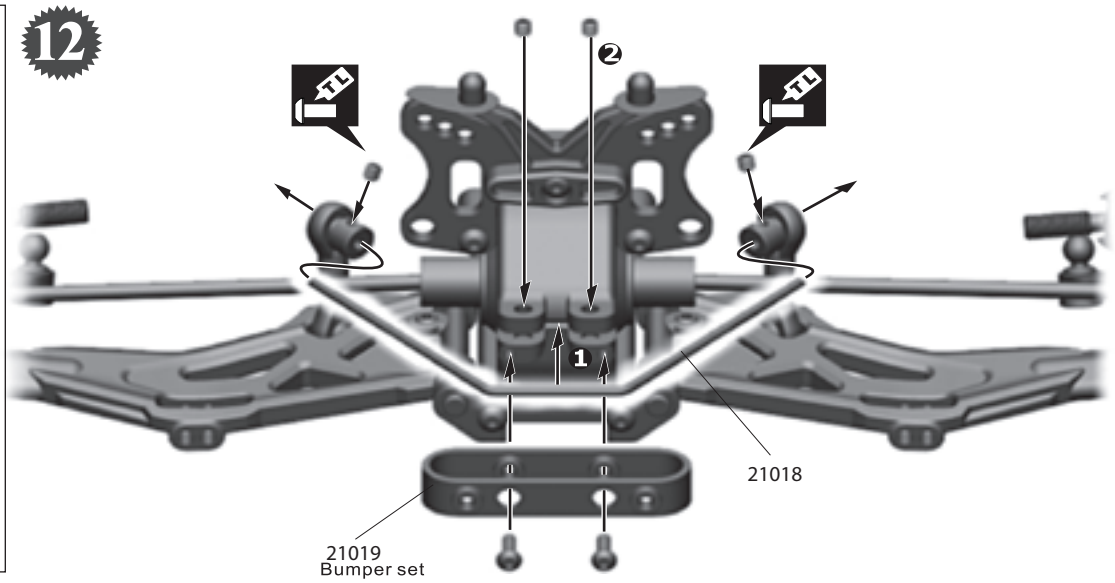
Assembly of Front Stabilizer : Step2

94033
3x3mm x2
Set screw

94034
4x5mm x2
Set screw

94049
2.6x8mm x2
Screw

12



Assembly of Front Upper Arms

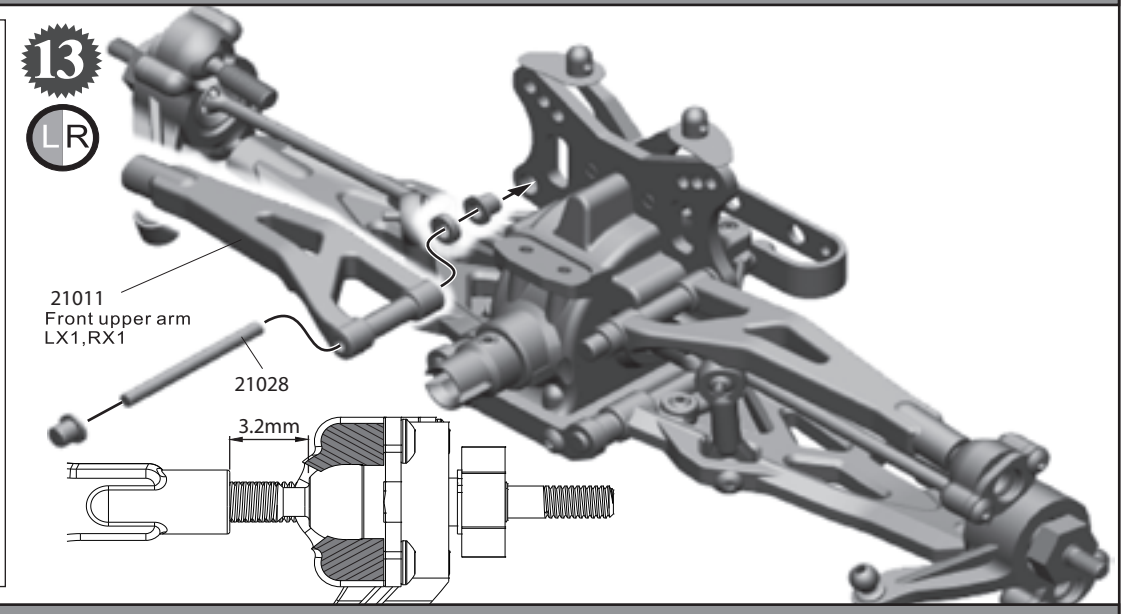
21028
3x35mm x2
Shaft

21029
Plastic shaft gasket

21029
Plastic washer 2mm

13

L R



Assembly of Steering Servo Saver Arms

21033
Alu.nut x1

22012
Ball x2

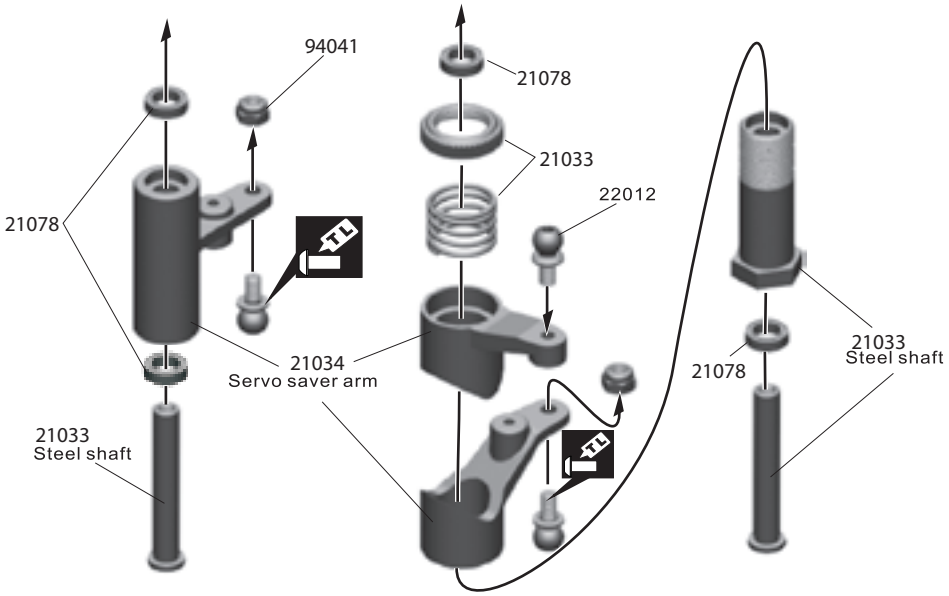
94041
M3 Nut x2

21078
5x8mm
Bushing

21033
Servo saver spring x1

21033
Alu.Servo saver x1

14



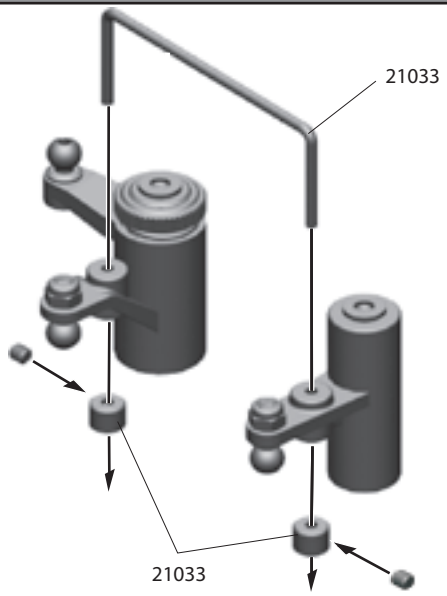
Assembly of Steering Rod

94033
3x3mm X2
Set screw

21033
Stopper X2

21033

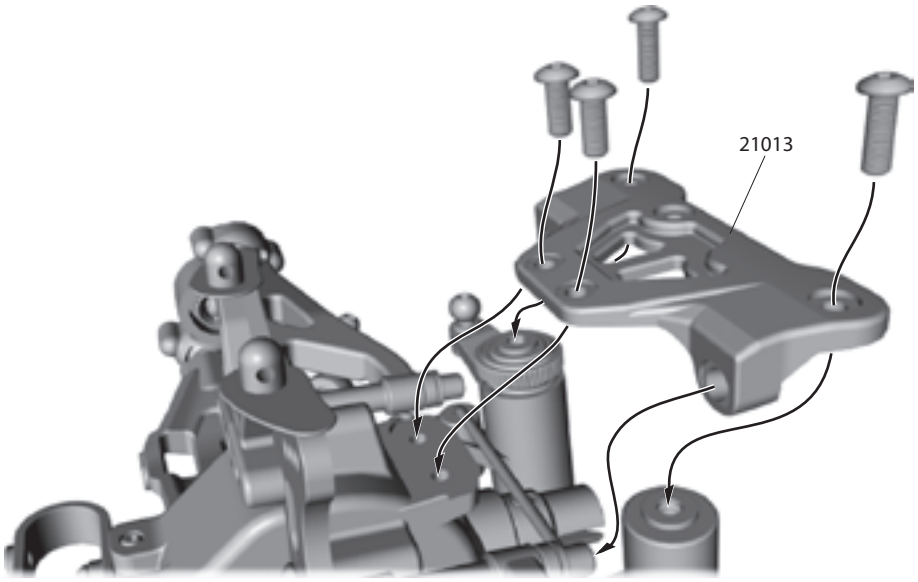
15



Assembly of Front Upper Arm Holder

94002
3x8mm x4
Screw

16

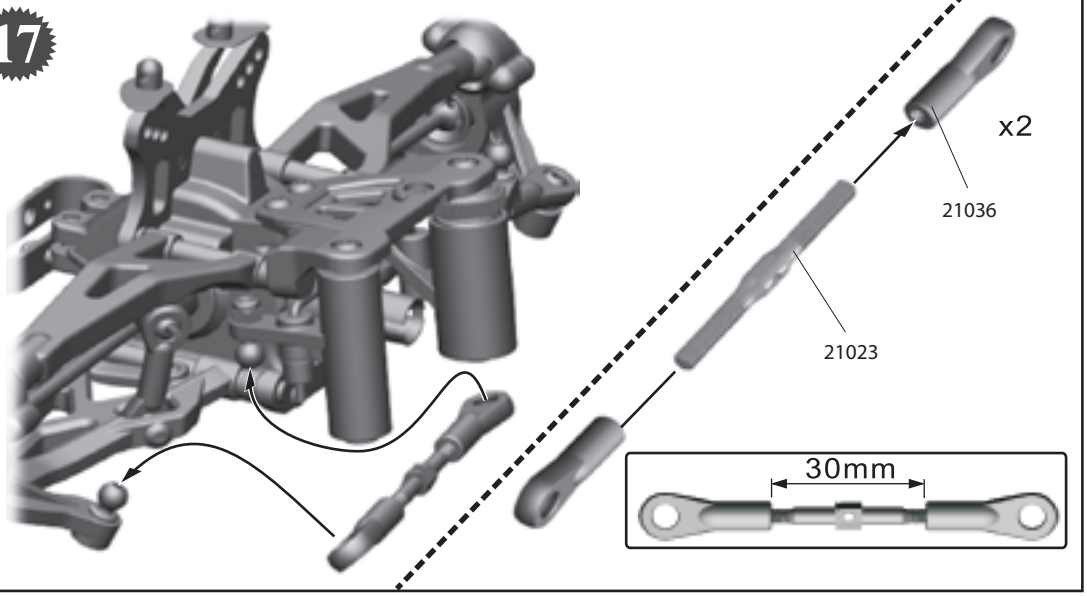


Assembly of Steering Rod

21036
Turnbuckle rod end X6

21023
Turnbuckle rod for steering x1

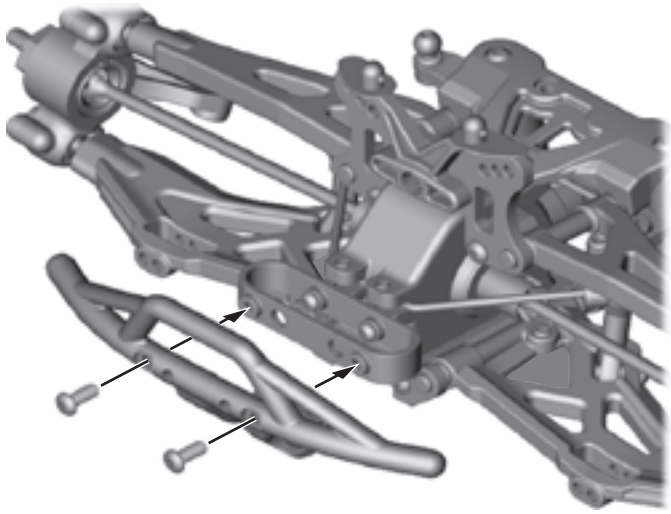
17

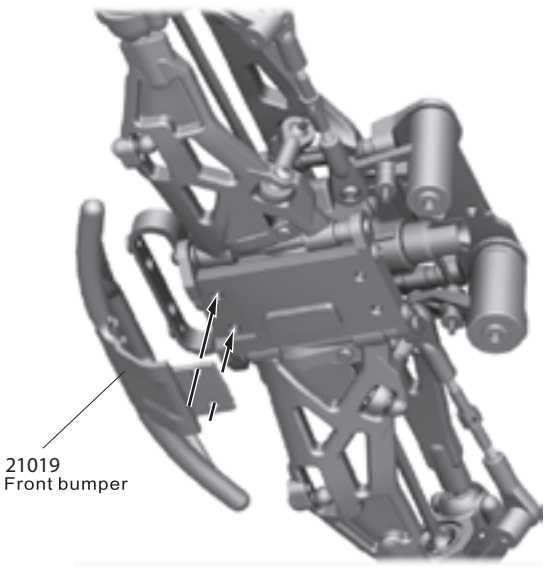


Assembly of Front Bumper

94002
3x8mm x2
Screw

18



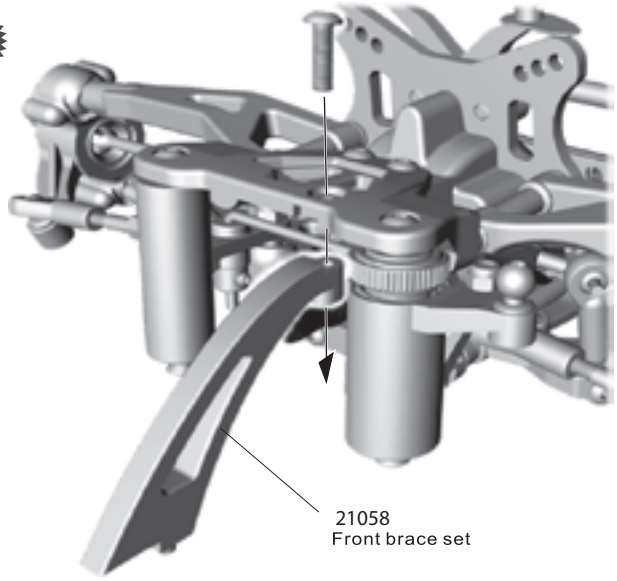


Assembly of Front Brace & Suspension Arms onto Chassis

94004
3x12mm x1
F/H screw

94003
3x10mm x6
F/H screw

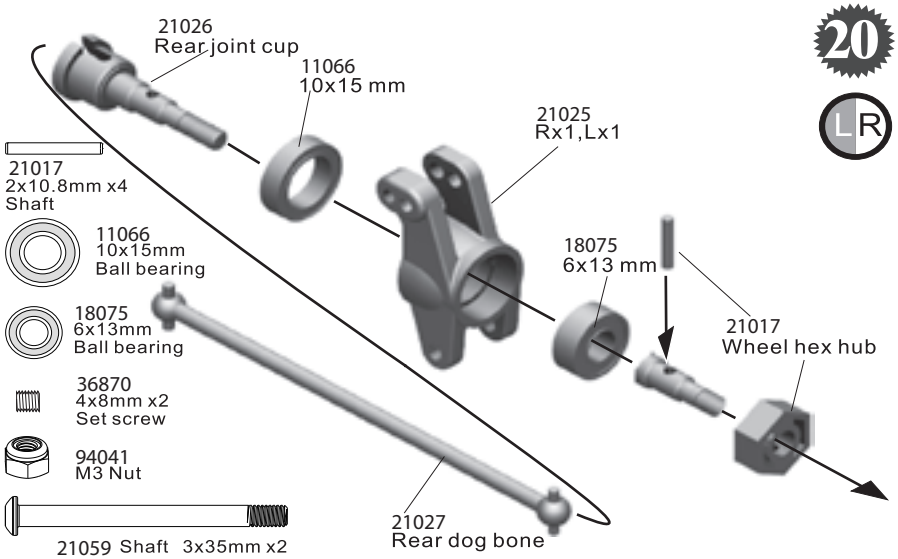
19



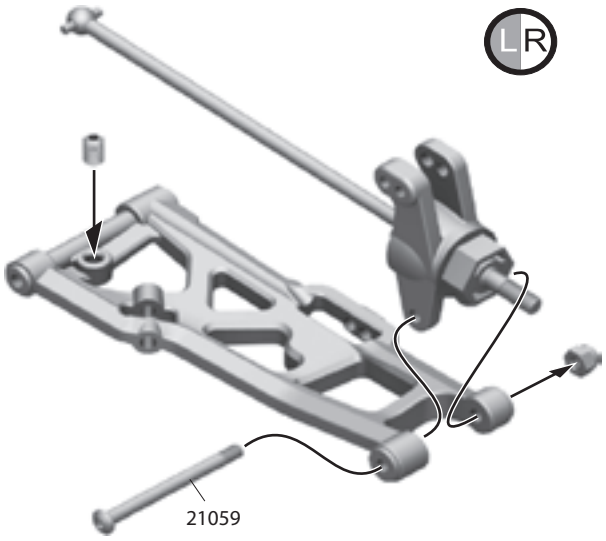
Assembly of Rear Suspension Arms : Step1

20

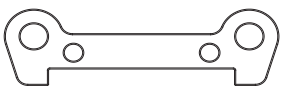
L R



L R

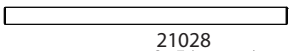


Assembly of Rear Suspension Arms : Step2



21123
F/R Alum suspension plate

94004
3x12mm x2
Screw

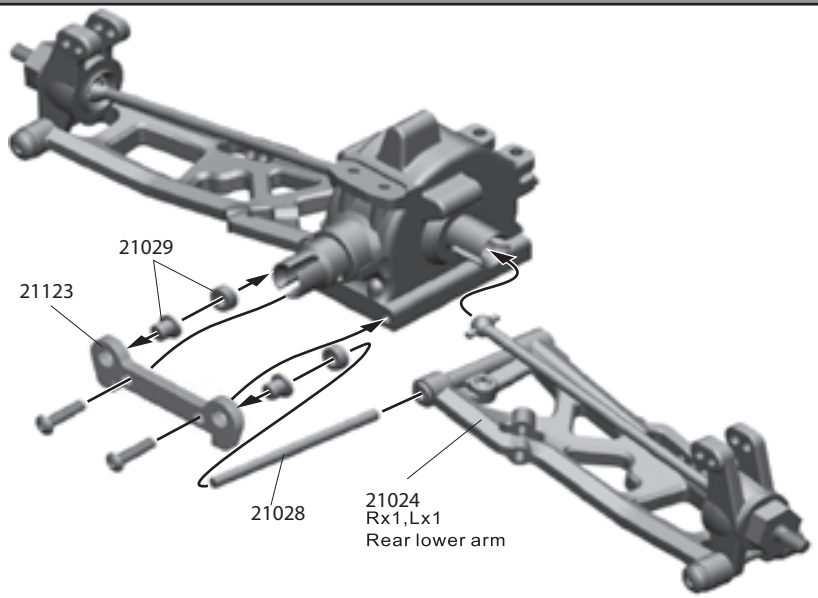


21028
3x51mm x4
Shaft

21029
Plastic washer 3mmm

21029
Plastic shaft gasket

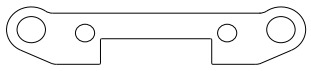
21



Assembly of Rear Suspension Arms : Step3

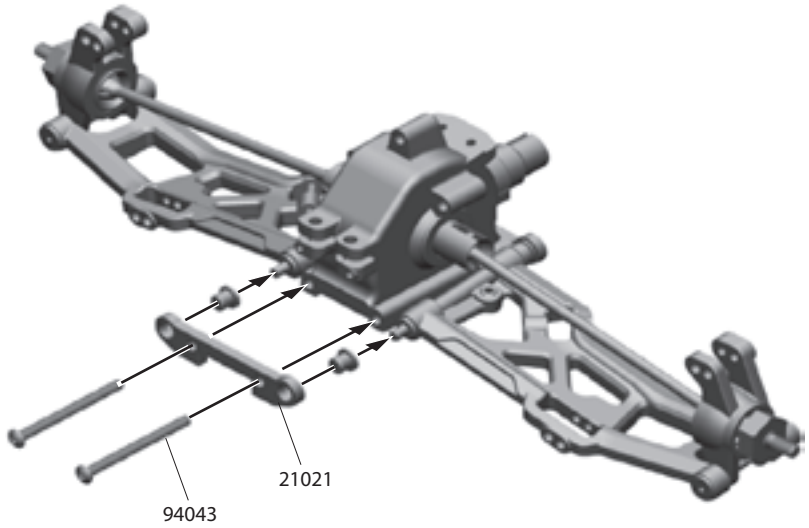
21029
Plastic shaft gasket

94043
3x35mm x2
Screw



21021
Rear lower arms holder-alum x1

22



Assembly of Rear Shock Tower

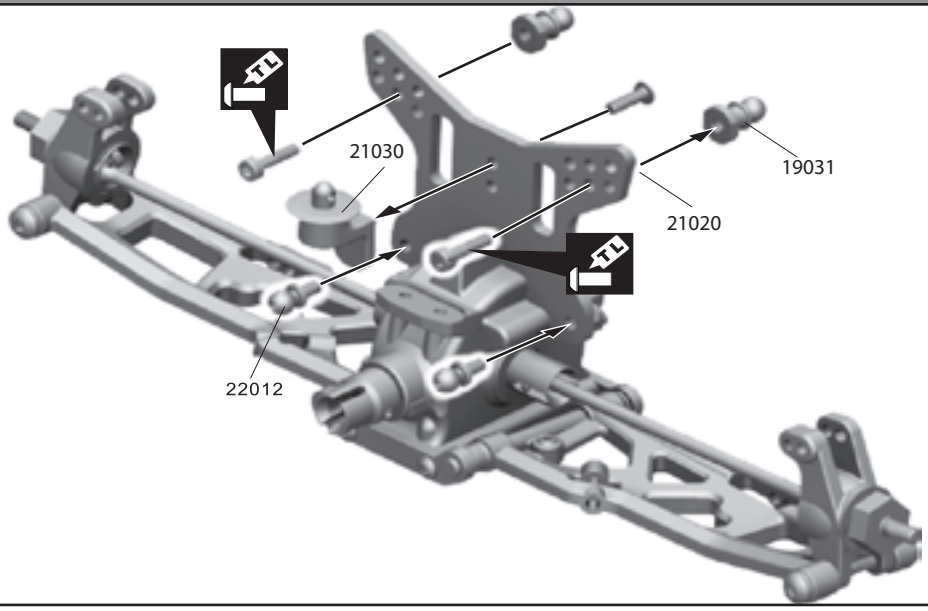
22012
5.8mm x2
Ball

19031
Steel shock ball x2

94038
3x12mm x2

94003
3x10mm x1
Screw

23

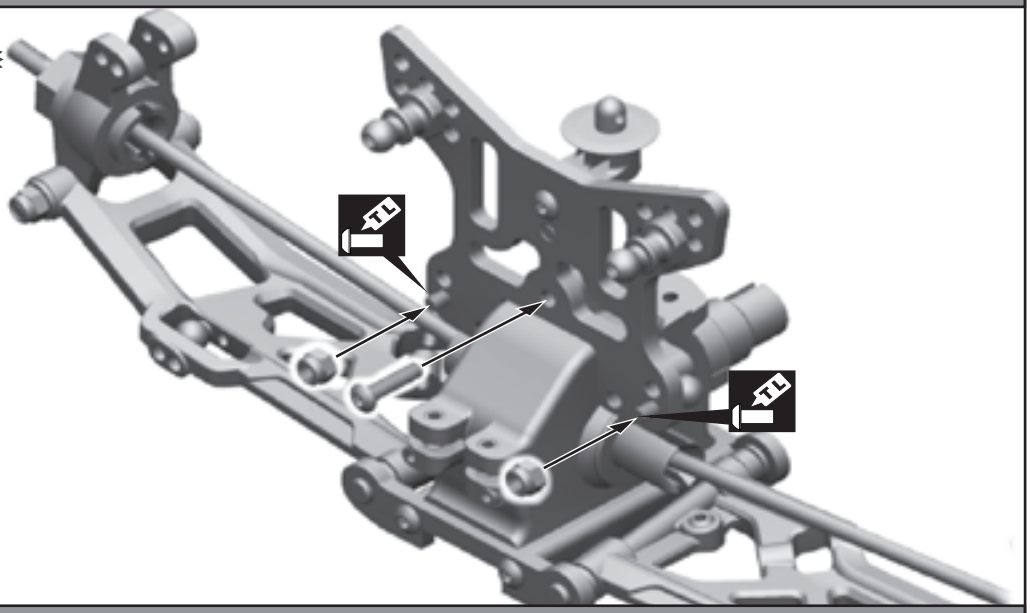


Assembly of Rear Shock Tower

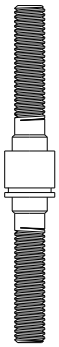
94004
3x12mm x1
Screw

94041
M3 Nut x2

24



Assembly of Rear Upper Arms

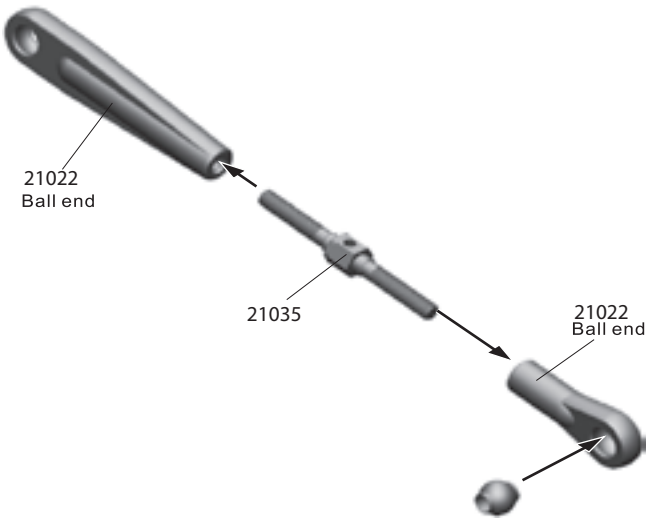


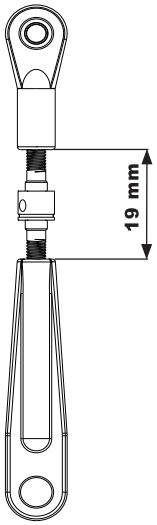
21035
3x36.5mm
Turnbuckle rod for
Rear upper Arm x2

22012
Steel ball x2

25

x2

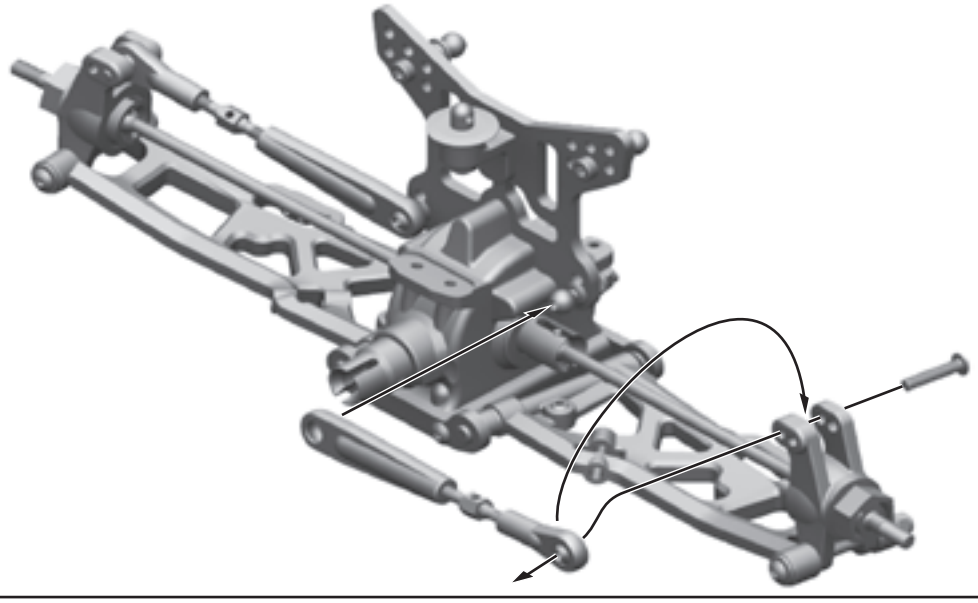




Assembly of Rear Suspension Arms

94005
3x15mm x2
Screw

26



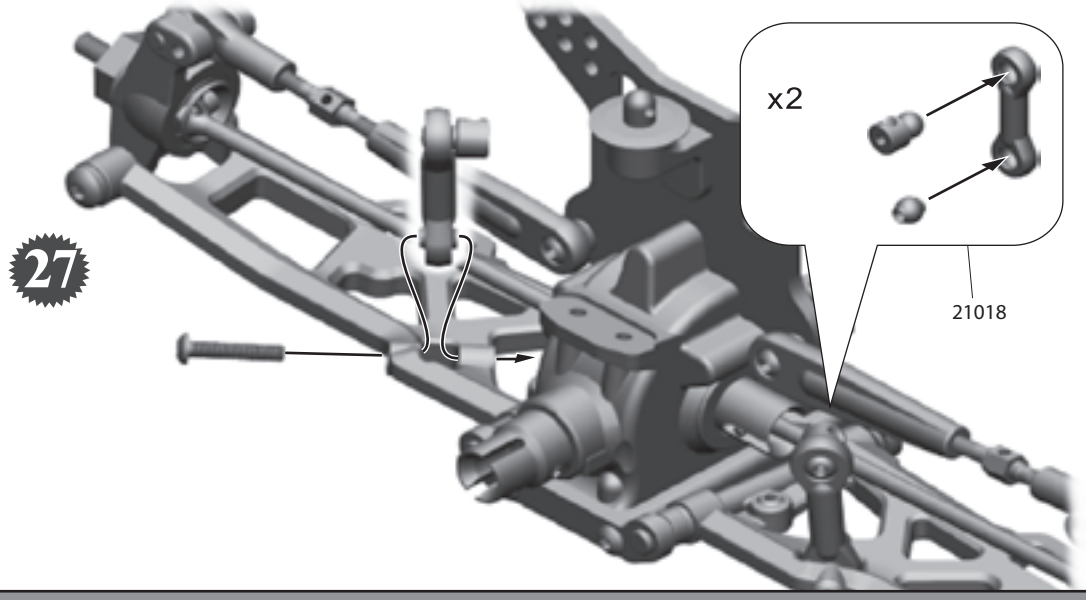
Assembly of Rear Stabilizer : Step1

21018
5.8mm Steel ball x4

21018
Pivot ball collar x2

94005
3x15mm x2
Screw

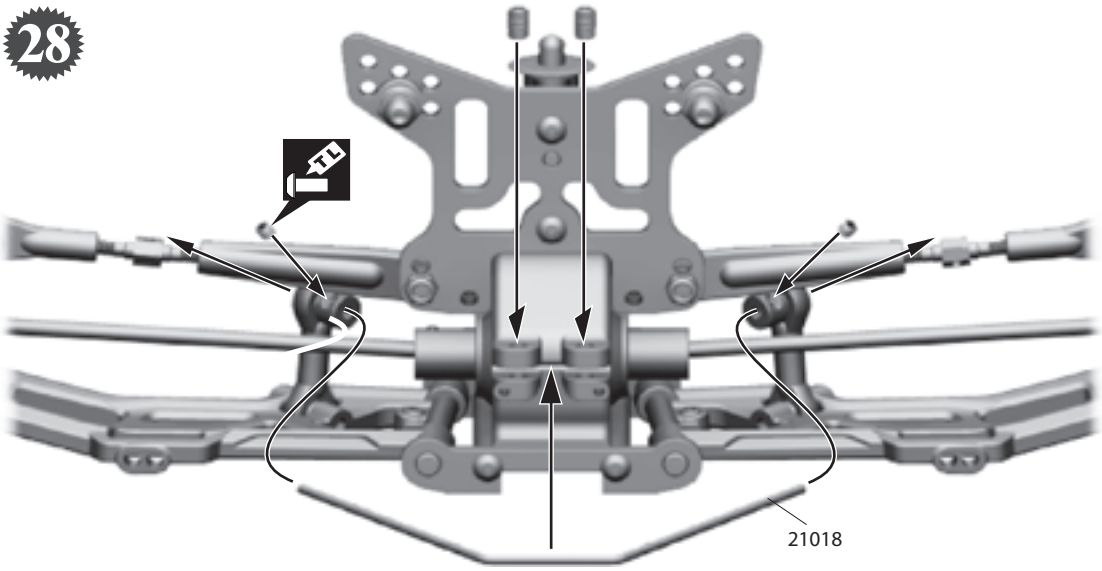
21018
Ball end x2



Assembly of Rear Stabilizer : Step2

94033
3x3mm x2
Set screw

94034
4x5mm x2
Set screw

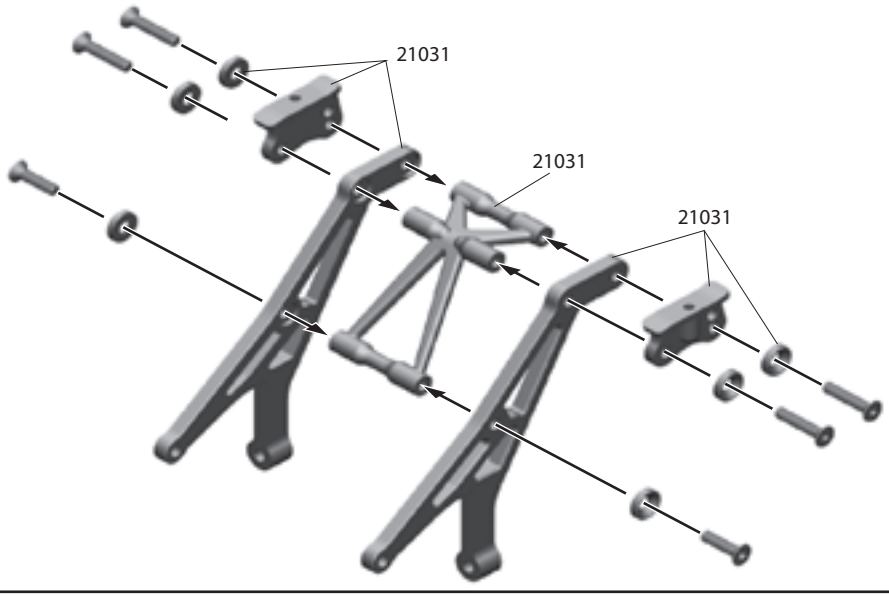


Assembly of Wing Stay

94021
3x15mm x4
F/H screw

94020
3x12mm x2
F/H screw

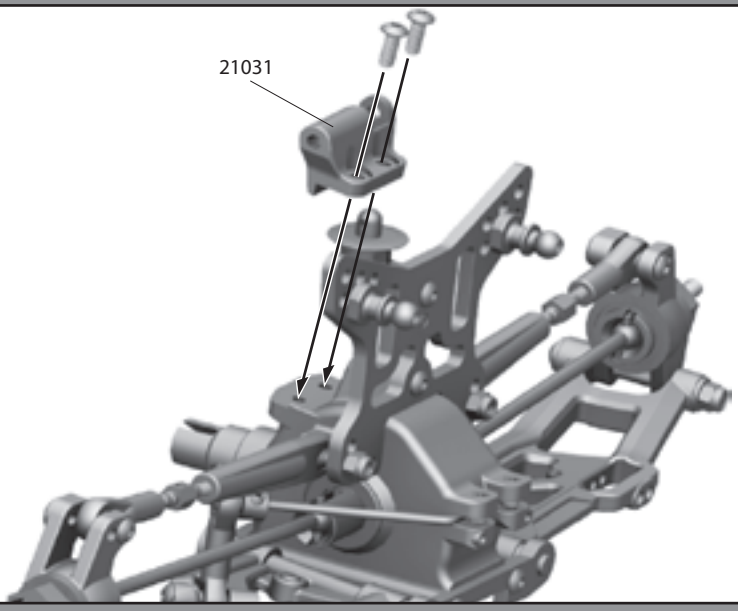
21031
Washer x6



Assembly of Rear Brace Holder

94002
3x8mm x2
Screw

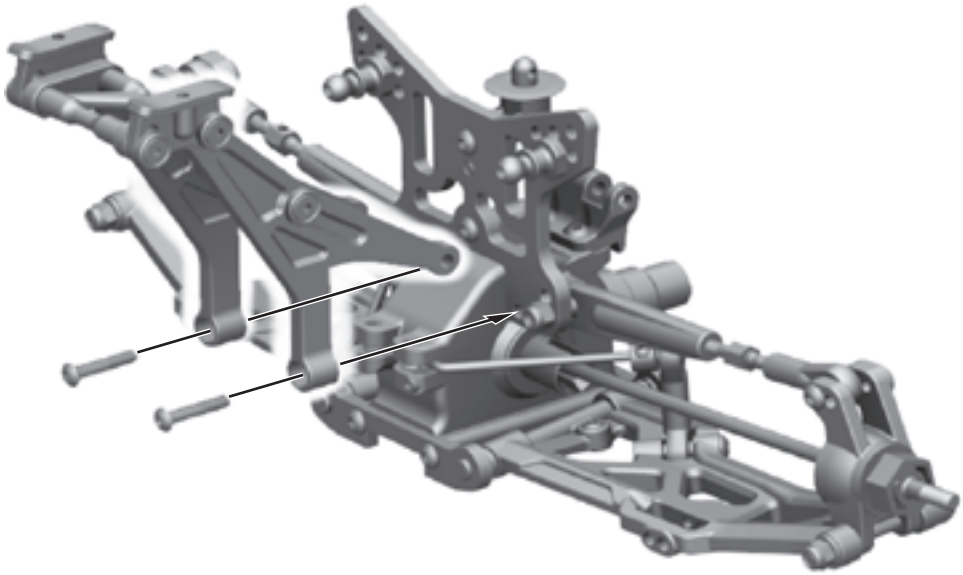
30



Assembly of Wing Stay

94005
3x15mm x2
Screw

31



Assembly of Rear Brace

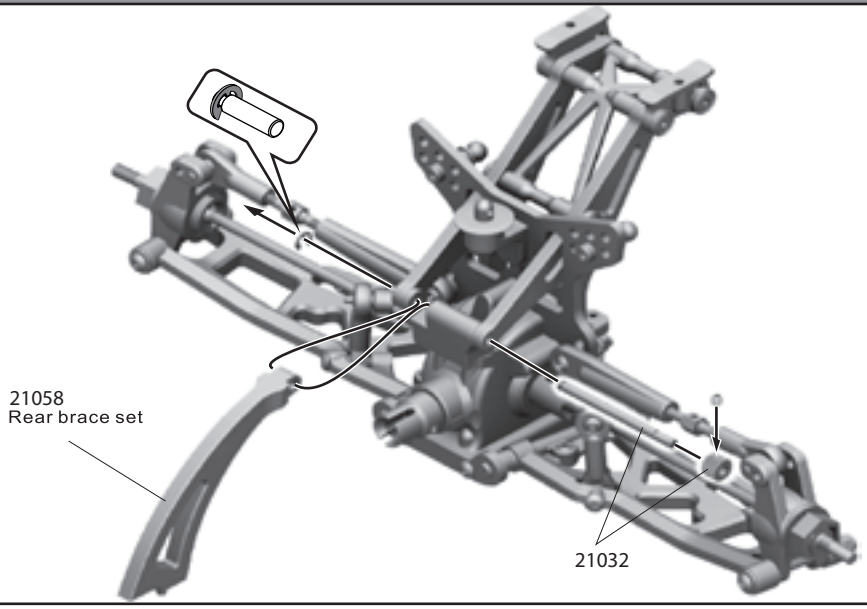
94033
3x3mm x1
Set screw

21032
Stopper x1

90020
G-clip x1

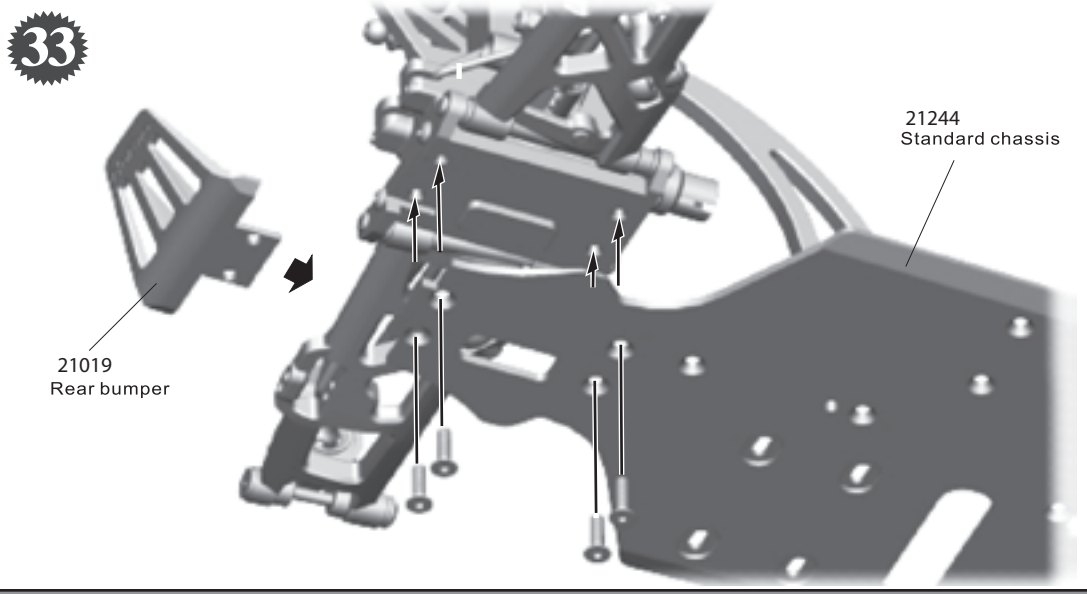
21032
Shaft x1

32



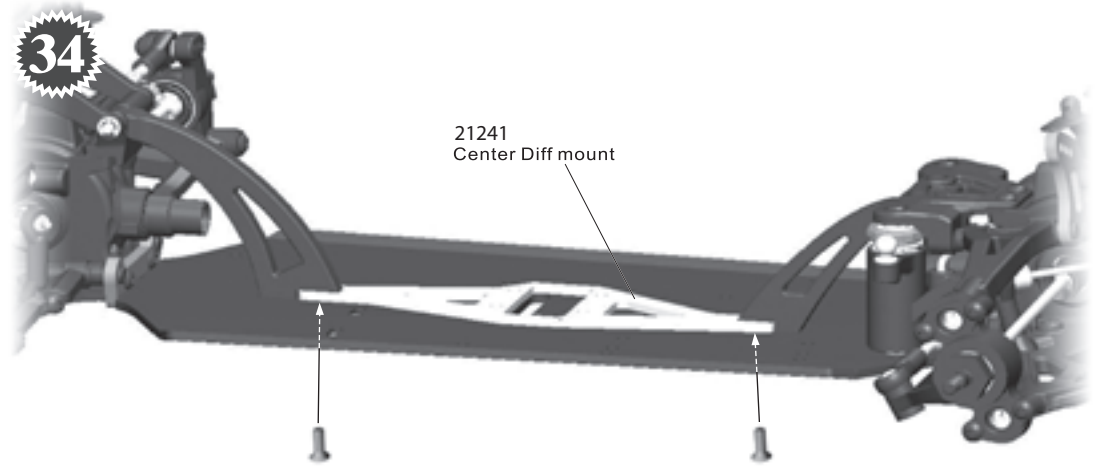
Assembly of Rear Bumper onto Chassis

94020
3x12mm x4
F/H screw



Assembly of Center Diff Mount onto Chassis

94019
3x10mm x2
F/H screw



★ Follow Steps 35 to 52 for Nitro Version for Center Diff and Engine Mount

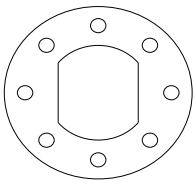
Assembly of Center Gear Box : Step1

19052
3x12 mm x4
Hex head screw

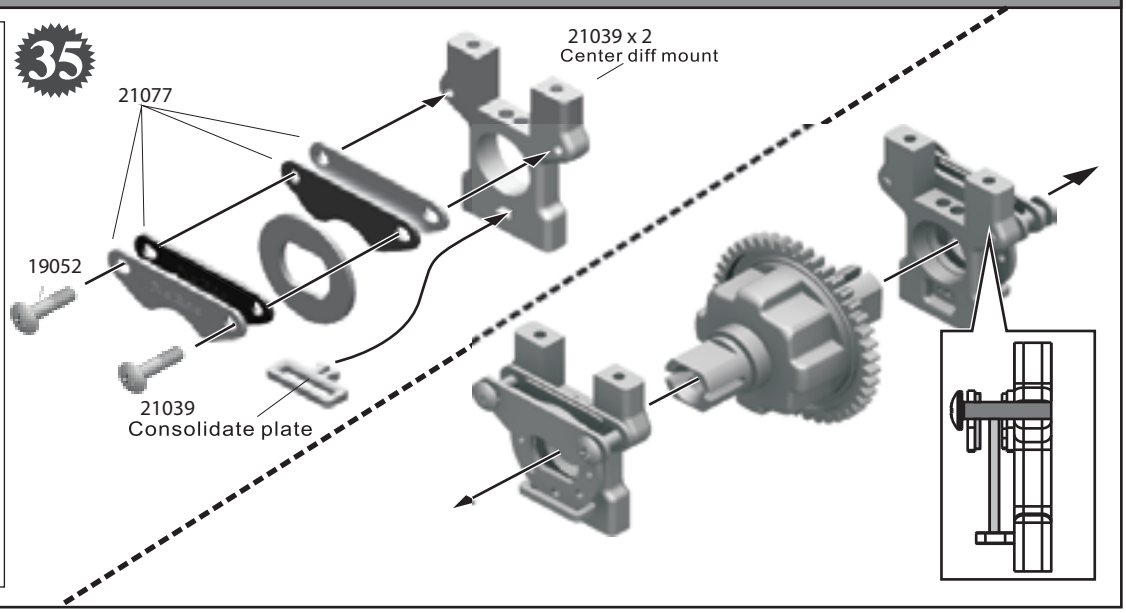
x4

x4

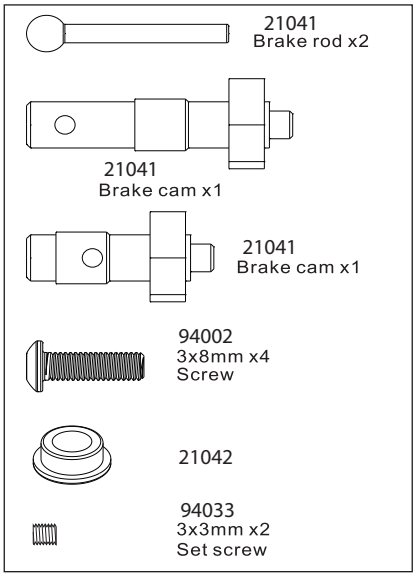
21077
Brake pad



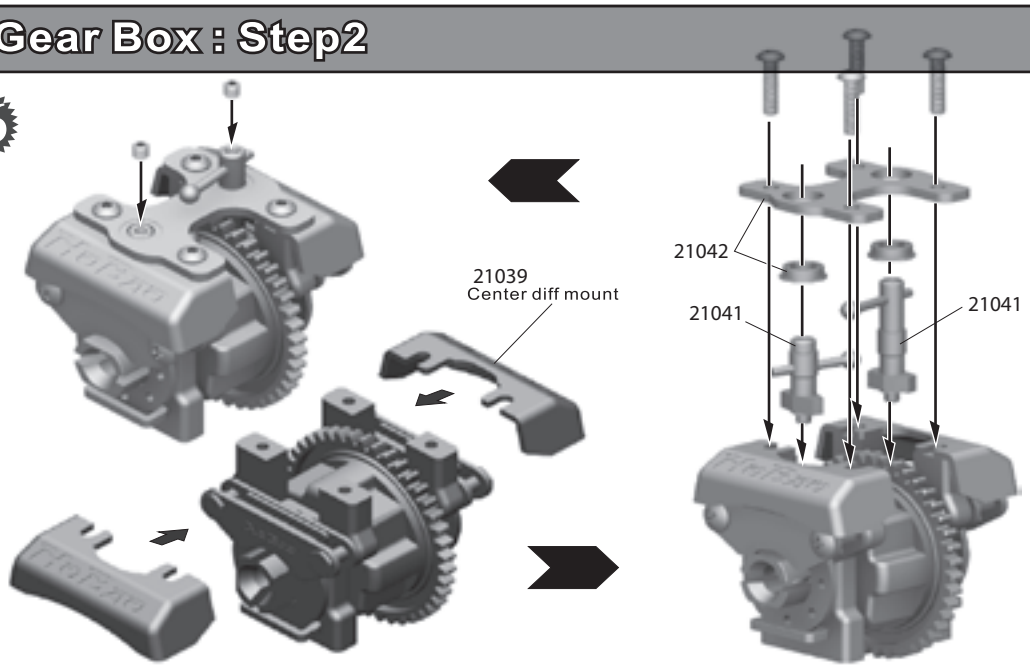
21040
Brake disc x2



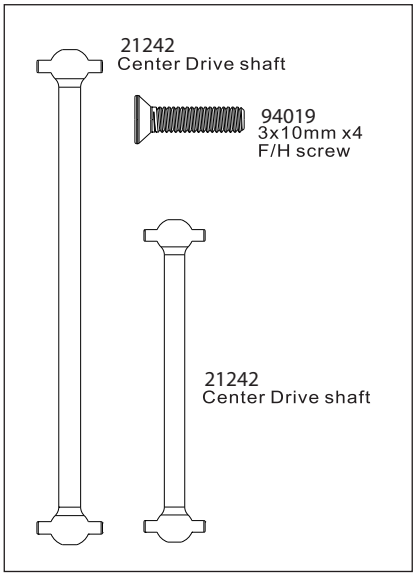
Assembly of Center Gear Box : Step2



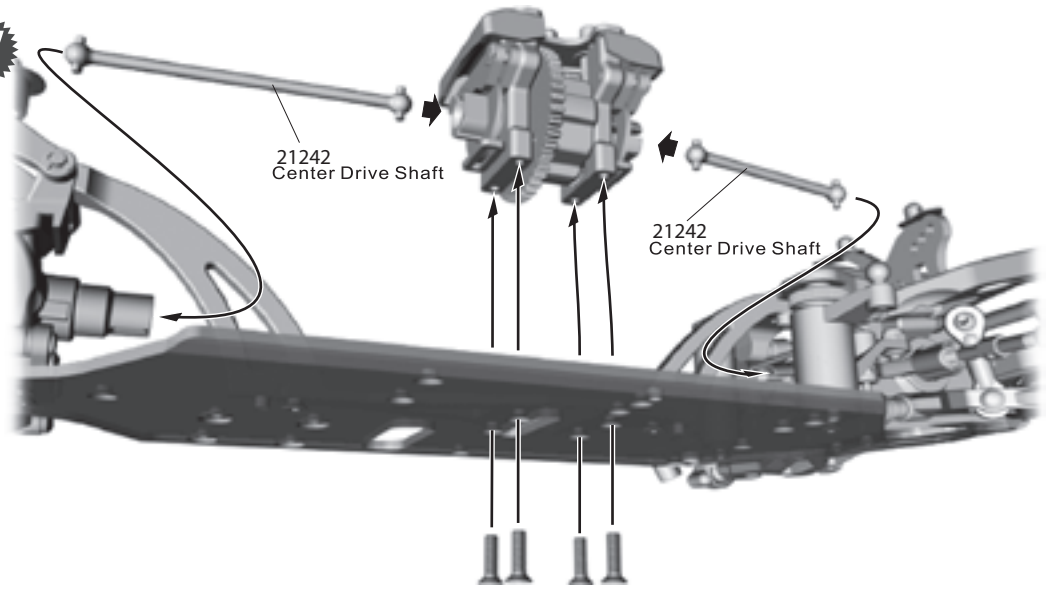
36



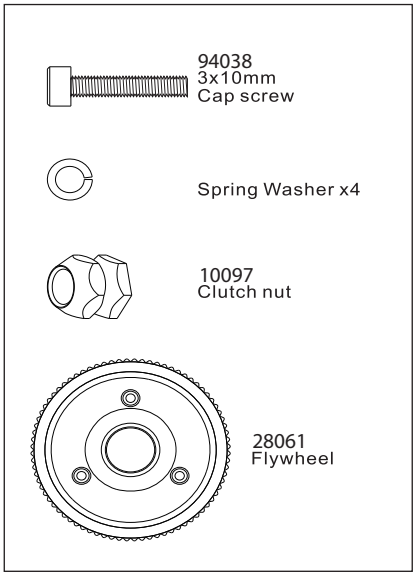
Assembly of Center Gear Box onto Chassis



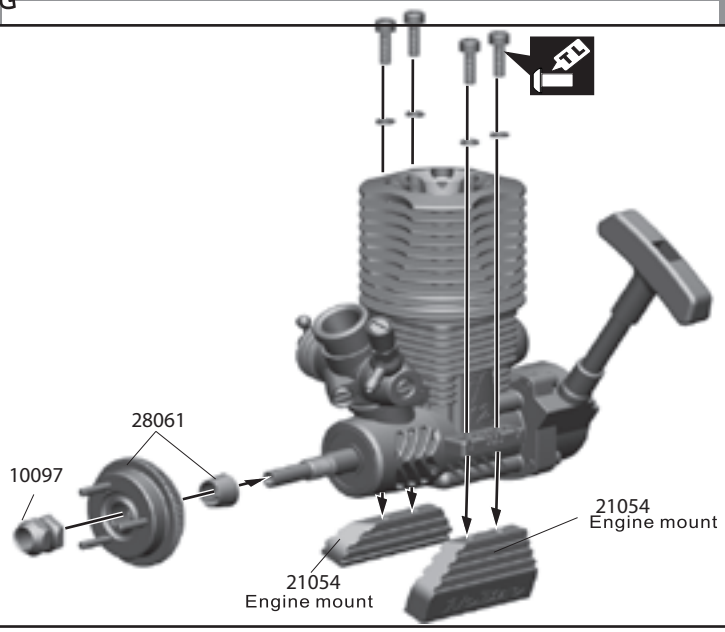
37



Assembly of Engine Mount

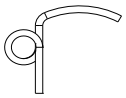


38



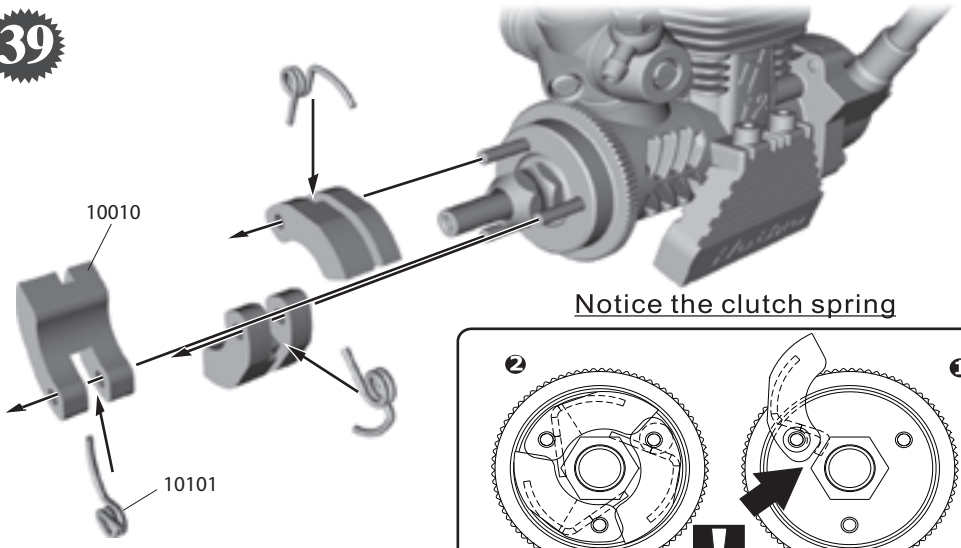
Assembly of Clutch : Step1

10010
Clutch shoe x3

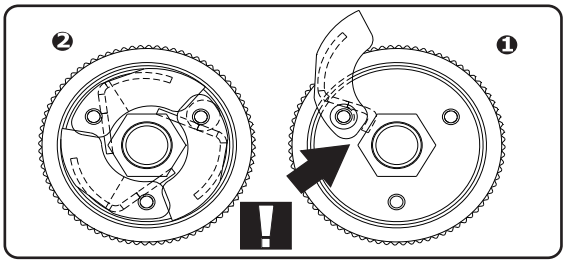


10101
Clutch spring x3

39



Notice the clutch spring



Assembly of Clutch : Step2

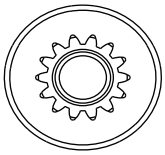
94056
3x8mm x1
Cap screw

10410

10410
3.1x6mm x1
Washer

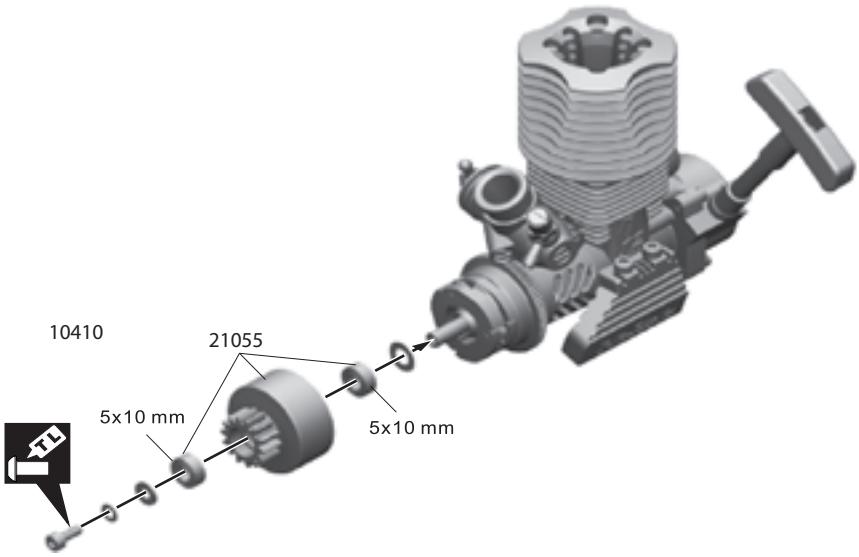
10410
5x8mm x5
Washer

18077
5x10mm x2
Bearing



21055
Clutch bell-14T x1

40



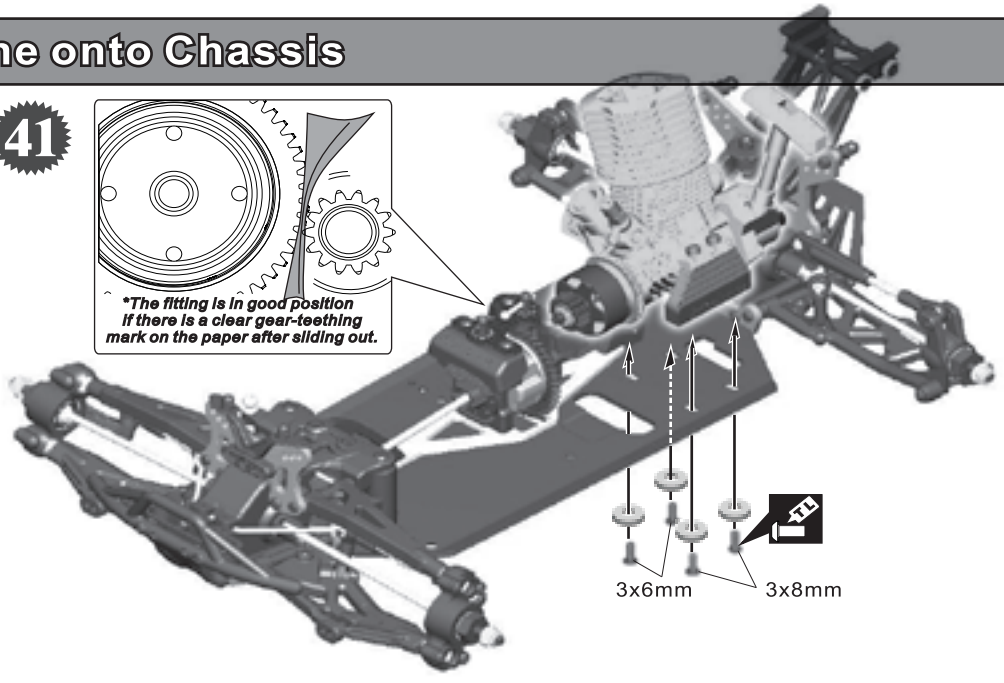
Assembly of Engine onto Chassis

94017
3x8mm x2
F/H screw

94018
3x6mm x2
F/H screw

21054
M3 Alu.washer x4

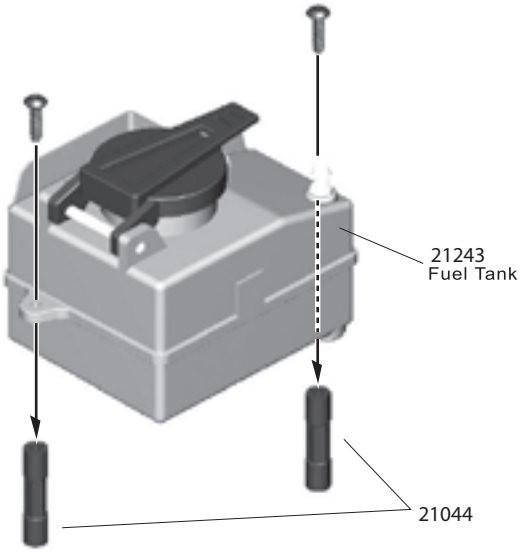
41



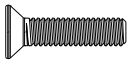
Assembly of Fuel Tank

3x10mm x2
TP screw

42

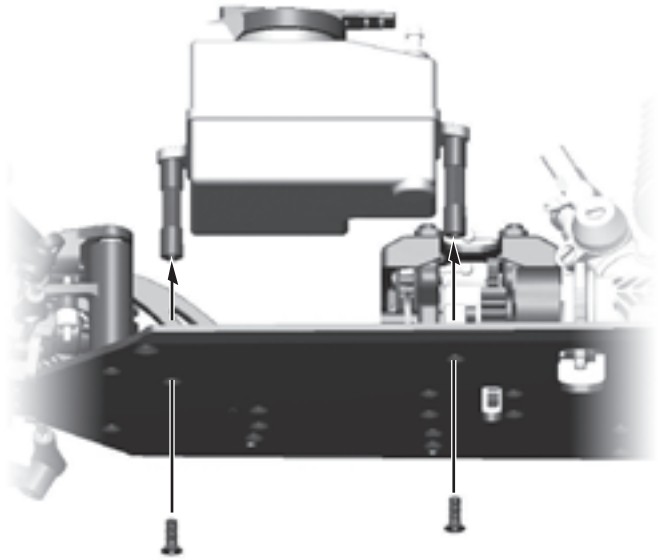


Assembly of Fuel Tank onto Chassis

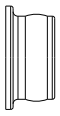


94019
3x10mm x2
F/H screw

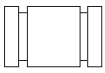
43



Assembly of Manifold

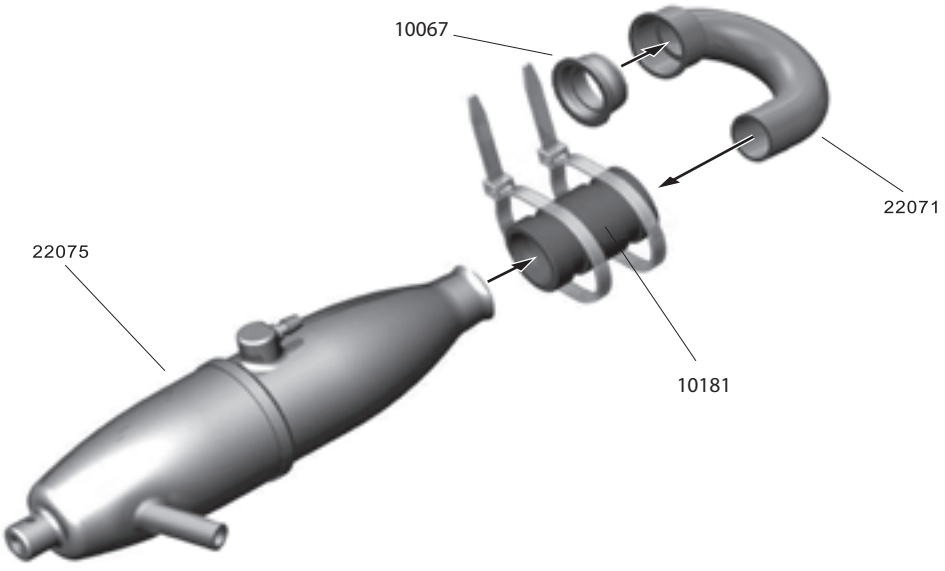


10067
Silicone tube x2



10181

44

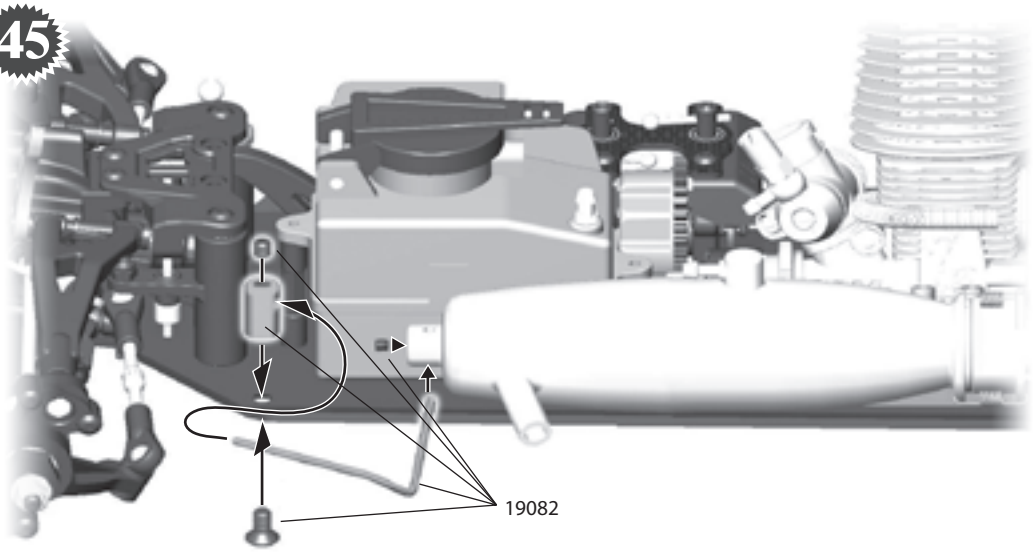


Assembly of Manifold and Muffler

94034
4x4mm x3
Set screw

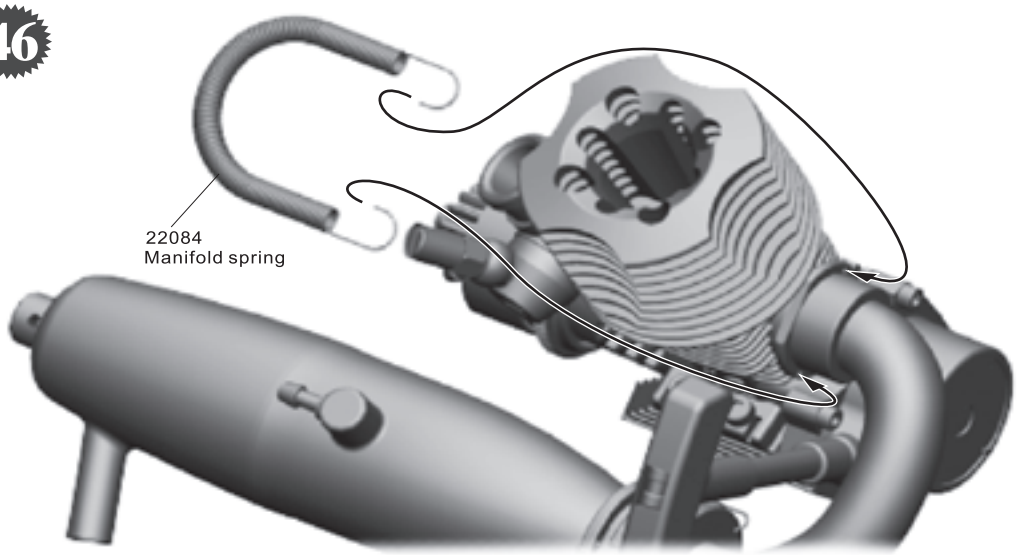
94026
4x8mm x1
Set screw

45



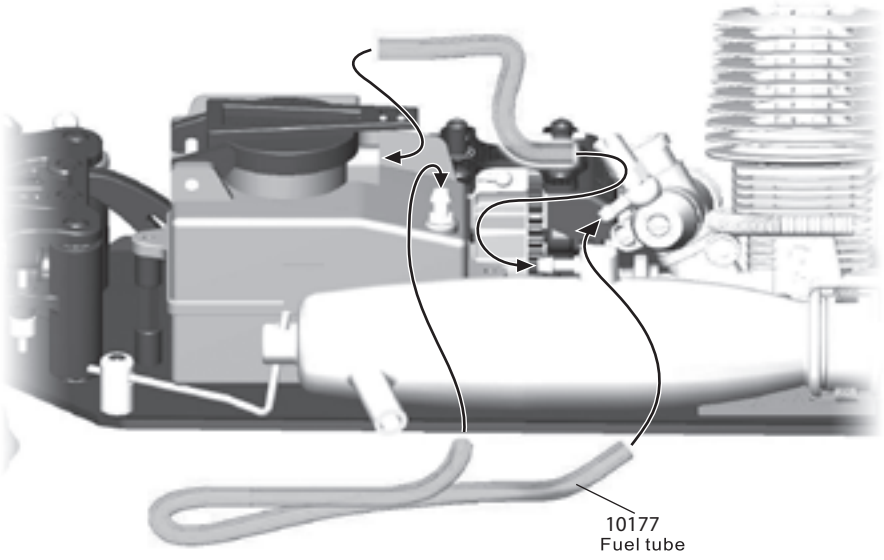
Assembly of Manifold Spring

46



Assembly of Fuel Tube

47



Assembly of Throttle Linkage

94033
3X3mm x4
Set screw

21050
Stopper x4

94041
M3 Nut x1

21050
Throttle spring x1

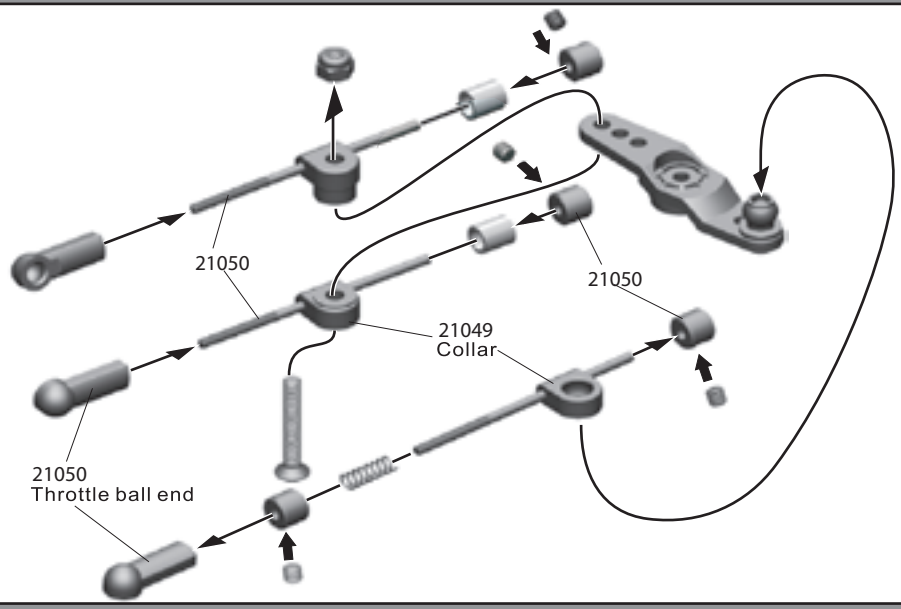
22012
Ball end x4

94002
3x8mm x2
Screw

94022
3x20mm x1
Screw

21050
Throttle rod x3

48

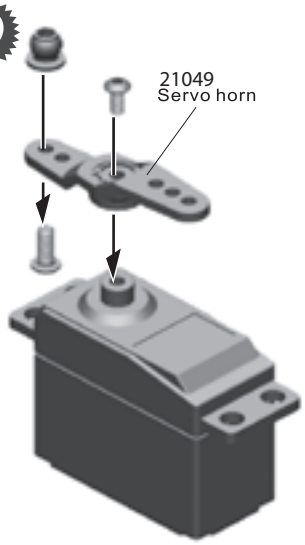


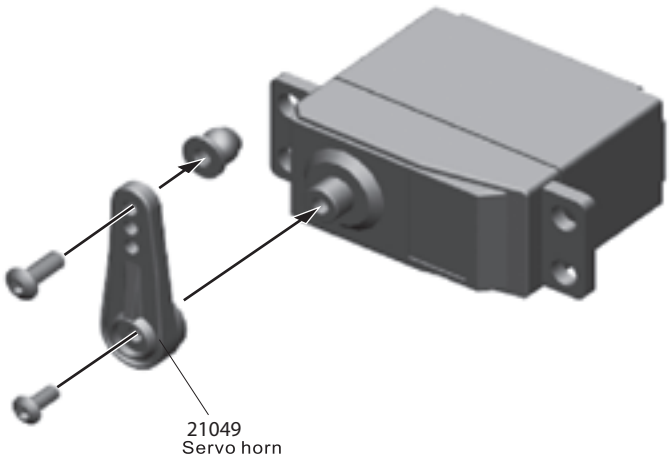
Assembly of Servo Horn

22012
Ball end x4

94002
3x8mm x2
Screw

49





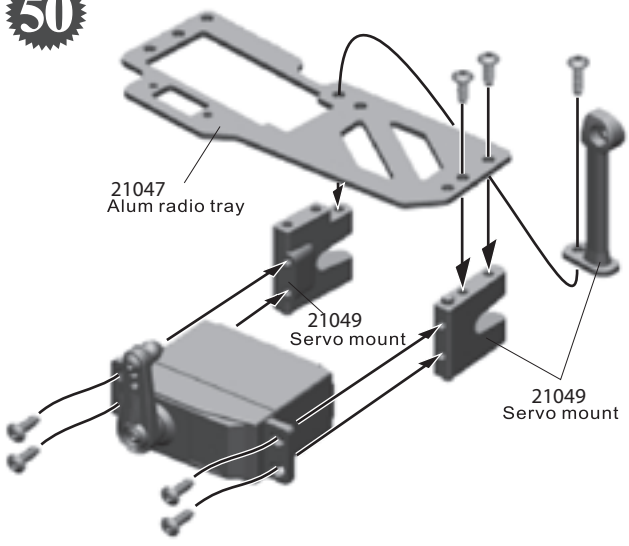
Assembly of Radio Tray

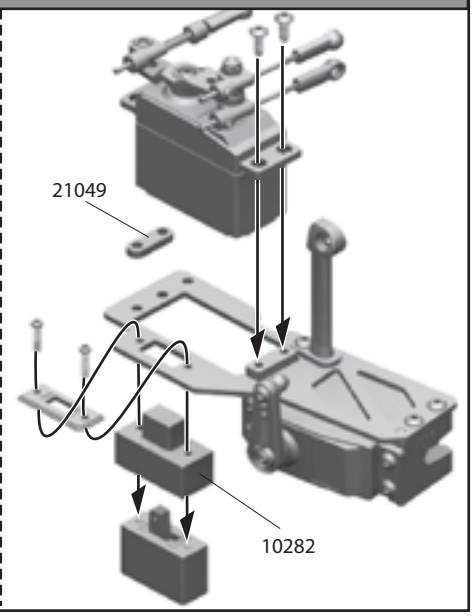
3x8mm x8
TP screw

2x10mm x2
Screw

3x10mm x1
TP screw

50



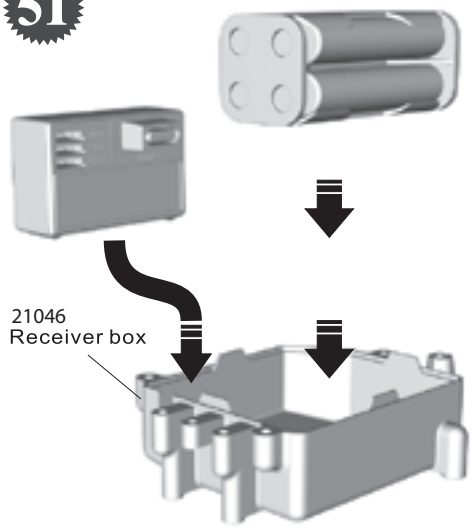


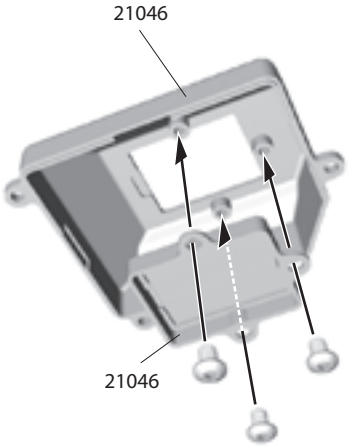
Assembly of Receiver Box

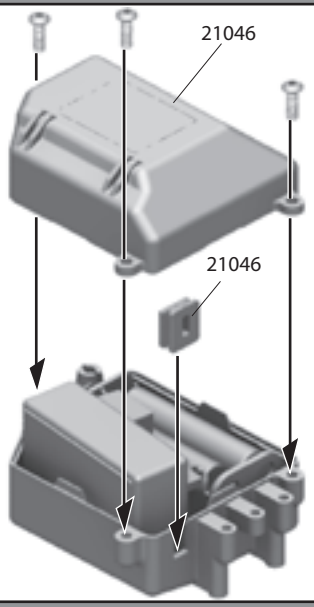
94001
3x5mm x3
F/H screw

3x10mm x3
TP screw

51

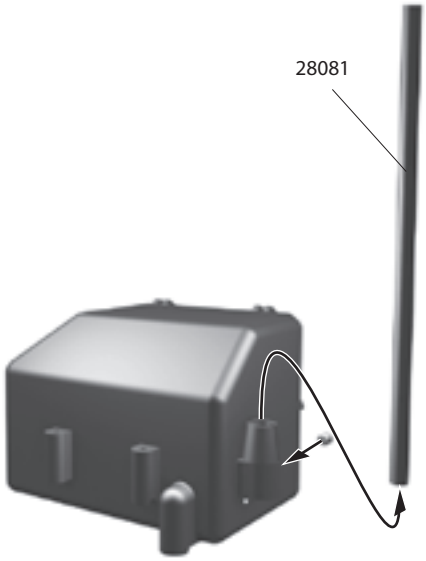


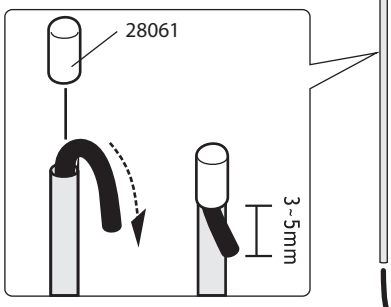


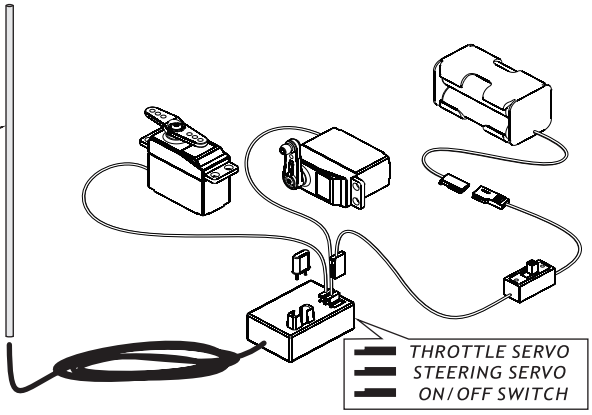


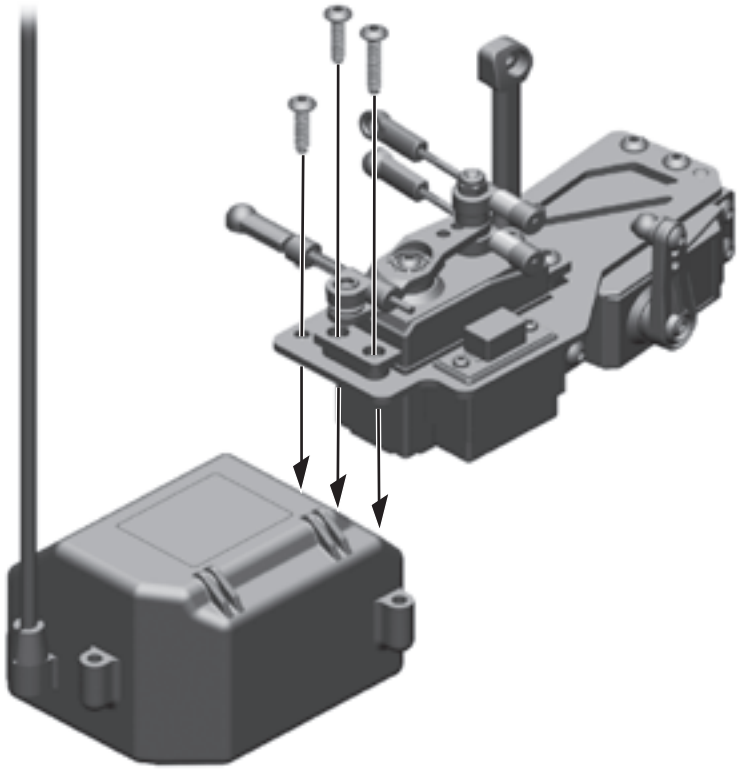
Assembly of Receiver Box

52





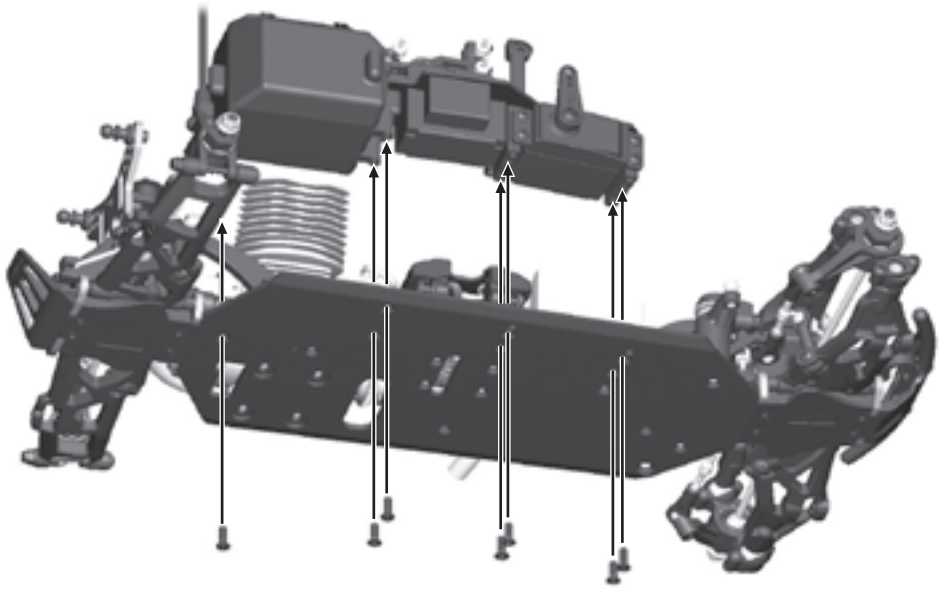




Assembly of Radio Tray and Receiver Box onto Chassis

94017
3x8mm x7
F/H screw

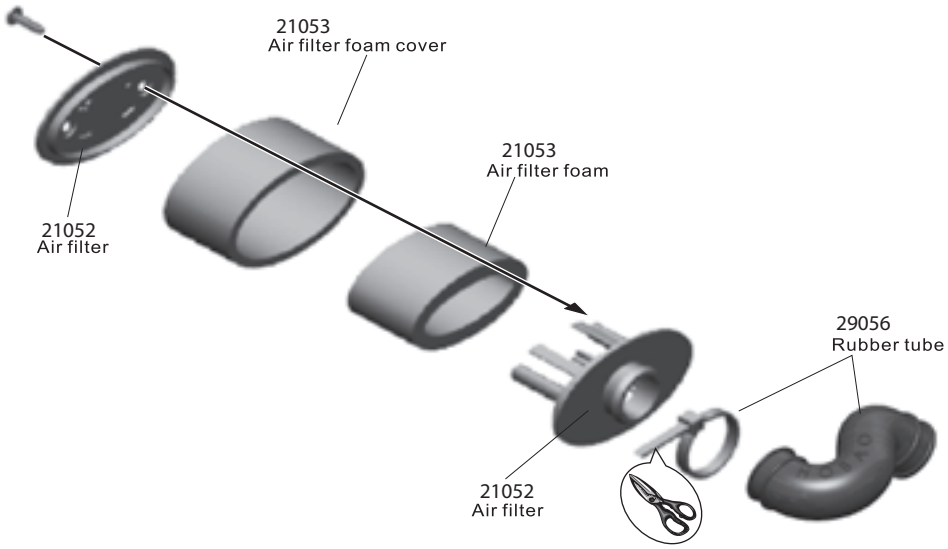
53



Assembly of Air Filter

3x10mm x1
TP screw

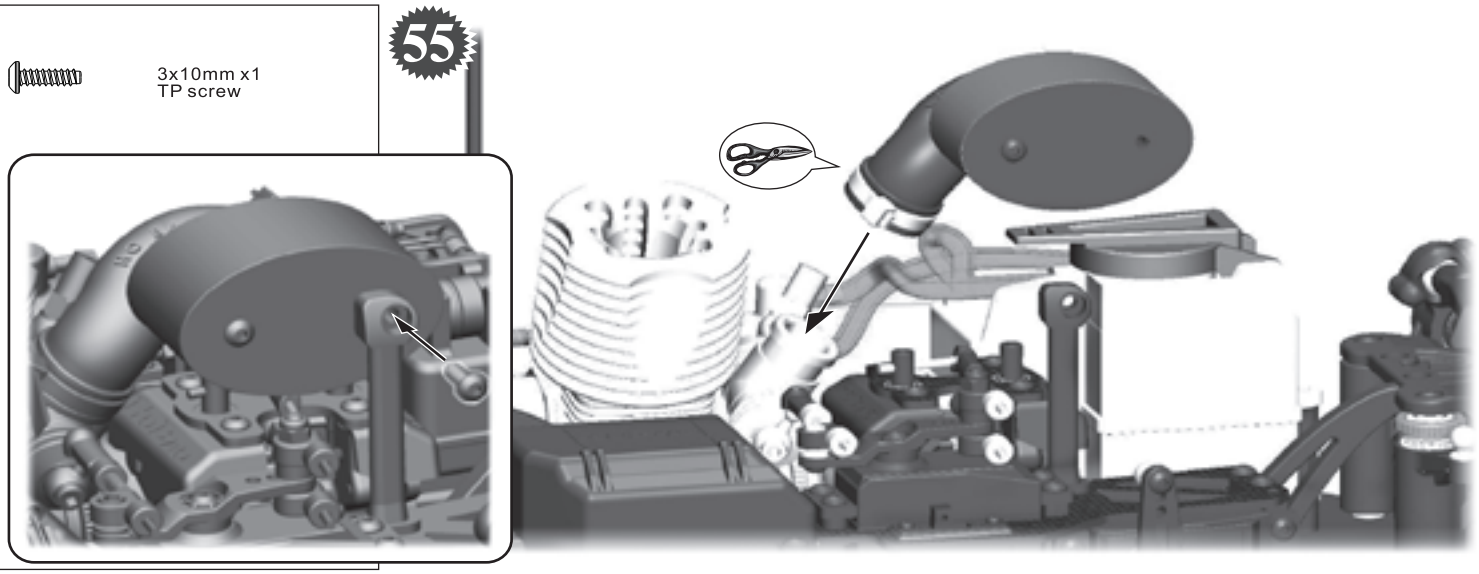
54



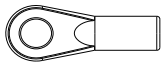
Assembly of Air Filter onto Engine

3x10mm x1
TP screw

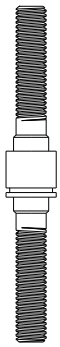
55



Assembly of Steering Servo Rod

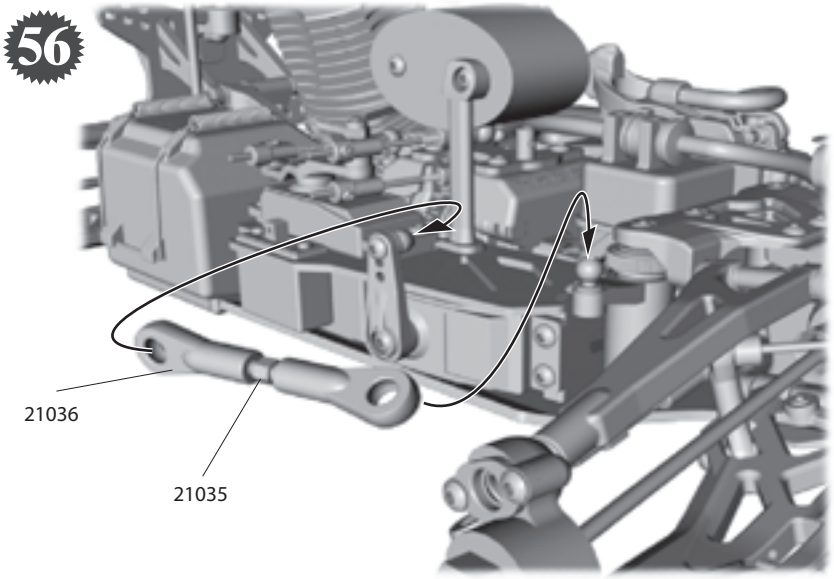


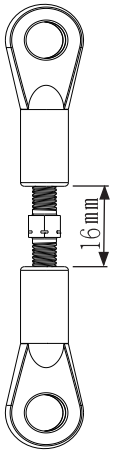
21036
Turnbuckle rod end X6



21035
3x36.5mm
Turnbuckle rod for
Rear upper Arm x2

56





Assembly of Front Shocks : Step1

21228
2.6x6.5x0.6mm x4
washer

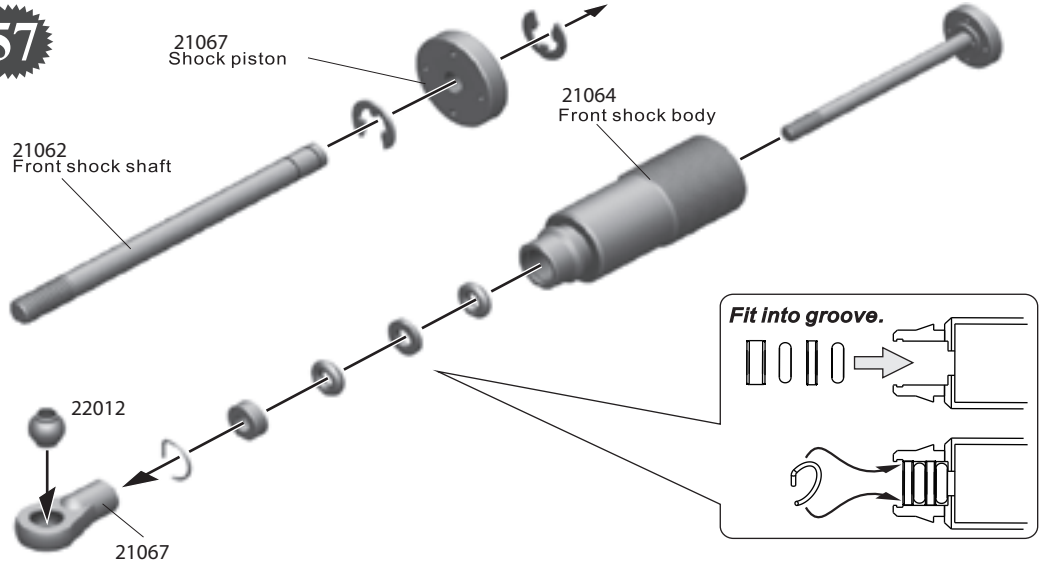
21228
Shock collar x4

21228
O-ring x8

21228
G-clip x4

90020
C-clip x6

57



Assembly of Rear Shocks : Step2

21228
2.6x6.5x0.6mm x4
washer

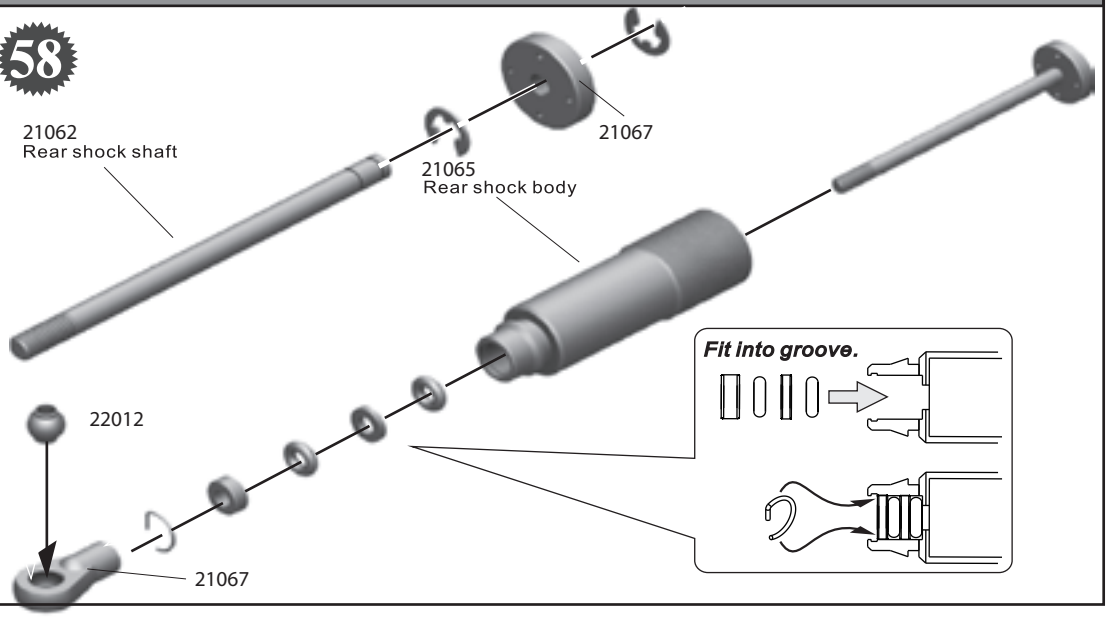
21228
Shock collar x4

21228
O-ring x8

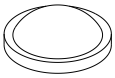
21228
G-clip x4

90020
C-clip x8

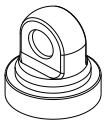
58



Assembly of Front and Rear Shock : Step3

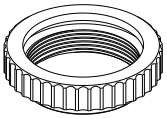


21063
Shock Bladder x4



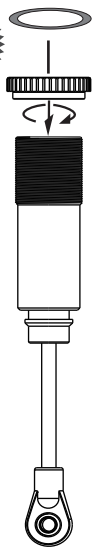
21067
Shock ball head x4

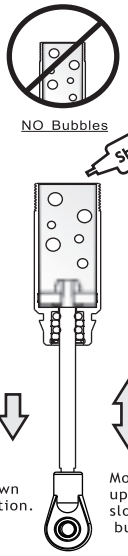
21064 Cap/Shock Body Front
21065 Cap/Shock Body Rear

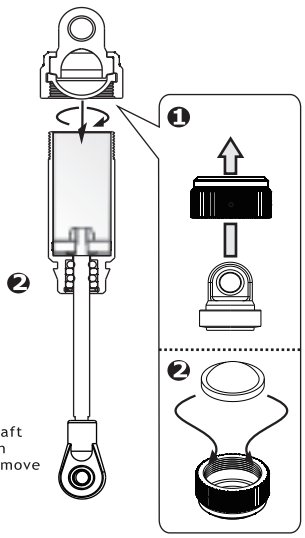


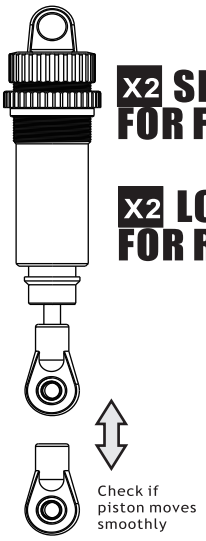
21066
Alu shock adjust-able ring x4

59



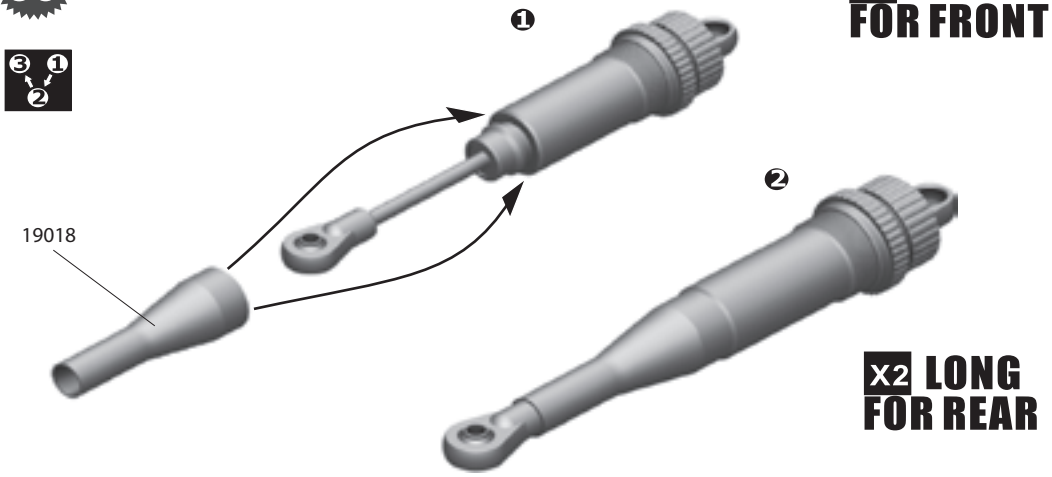






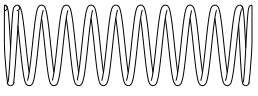
Assembly of Shock Shaft Dust Covers

60



Assembly of Front and Rear Shock Springs

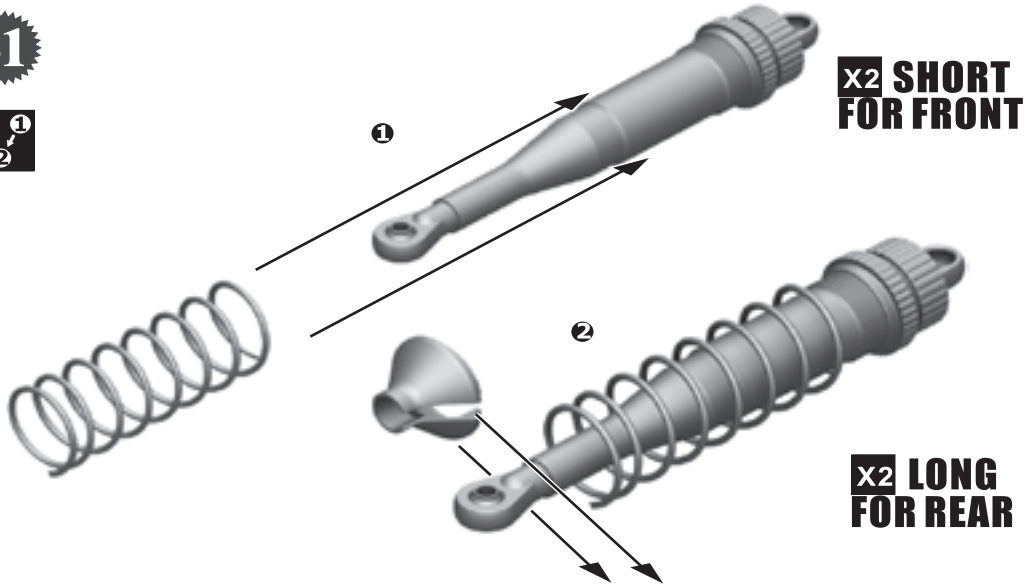
21067
Shock spring supporter x4



21068
Shock spring x2

21068
Shock spring x2

61



Assembly of the Front Shock Absorber

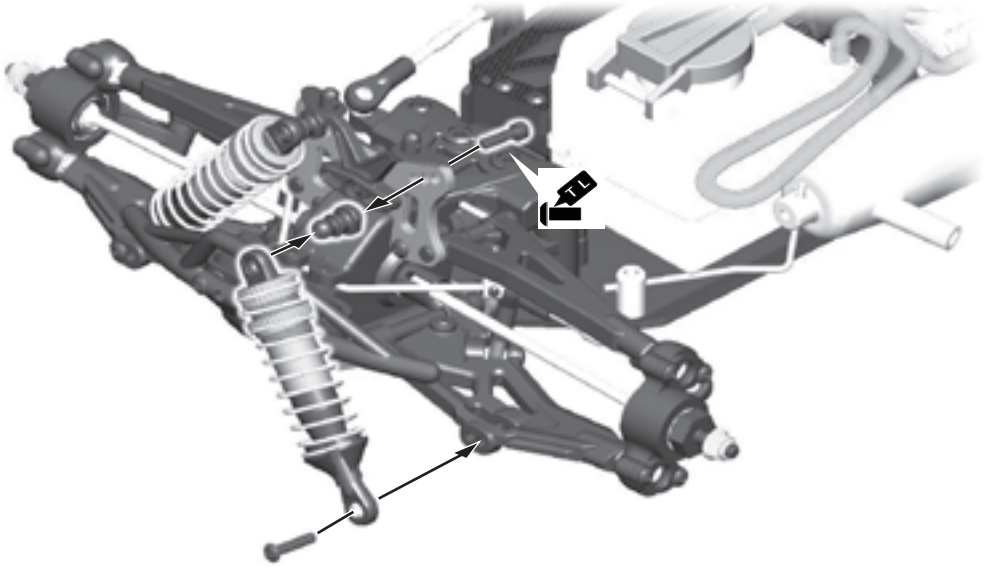
19031
Steel shock ball x2

94005
3x15mm x2
Screw

94038
3x12mm x2
Cap screw

62

LR

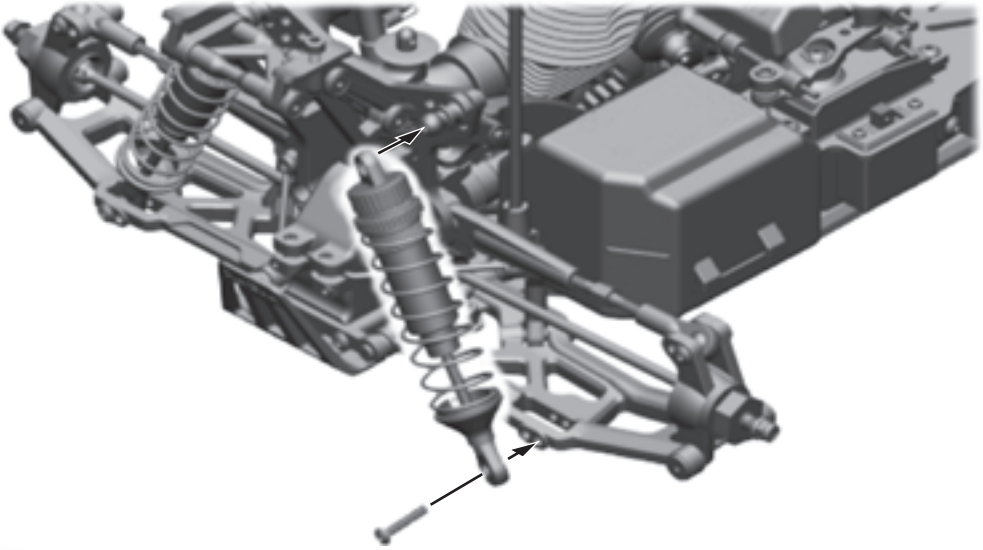


Assembly of the Rear Shock Absorber

94005
3x15mm x2
Screw

63

LR

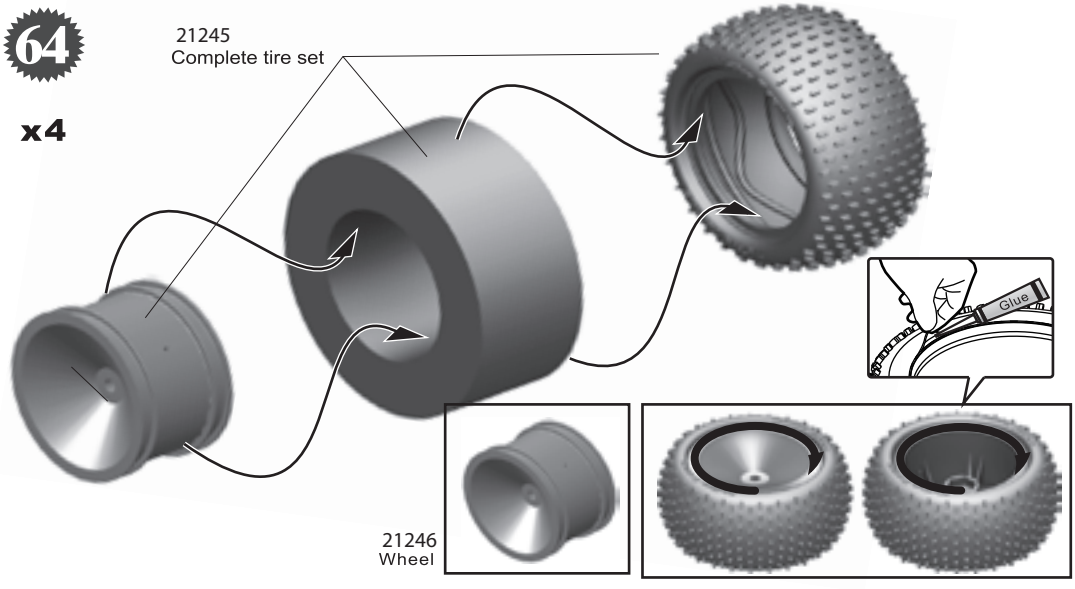


Assembly of Wheels and Tires

64

x4

21245
Complete tire set



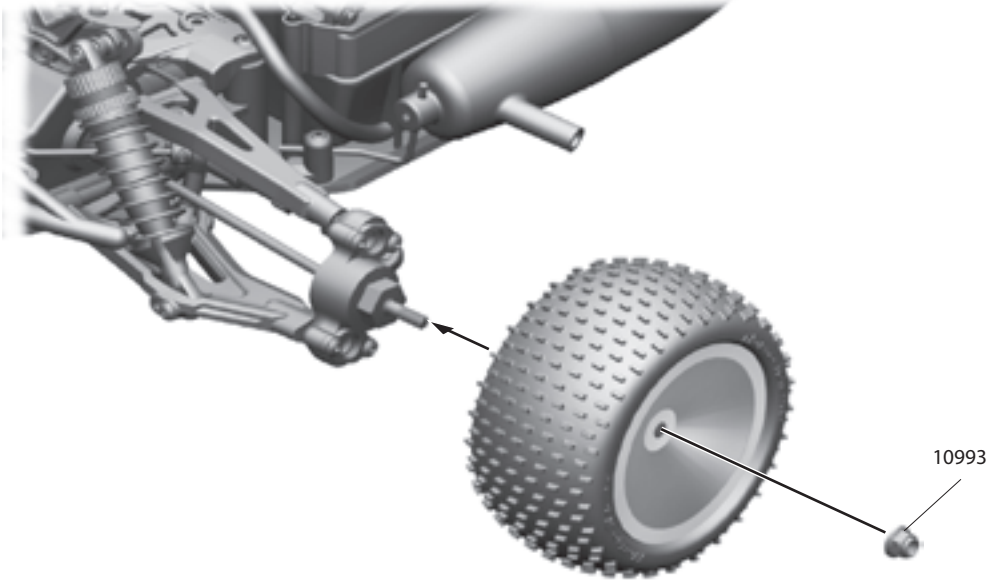
21246
Wheel

Assembly of the Tires onto Front Knuckles

10993
Nylon nut 4mm

65

L R



Assembly of the Tires onto Rear Hubs

10993
Nylon nut 4mm

66

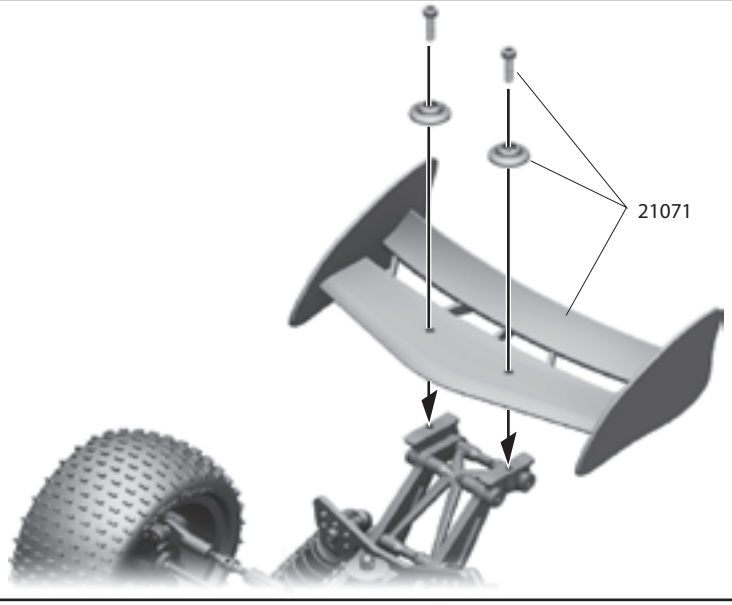
L R

Assembly of the Wing

3x15mm x2
Cap screw

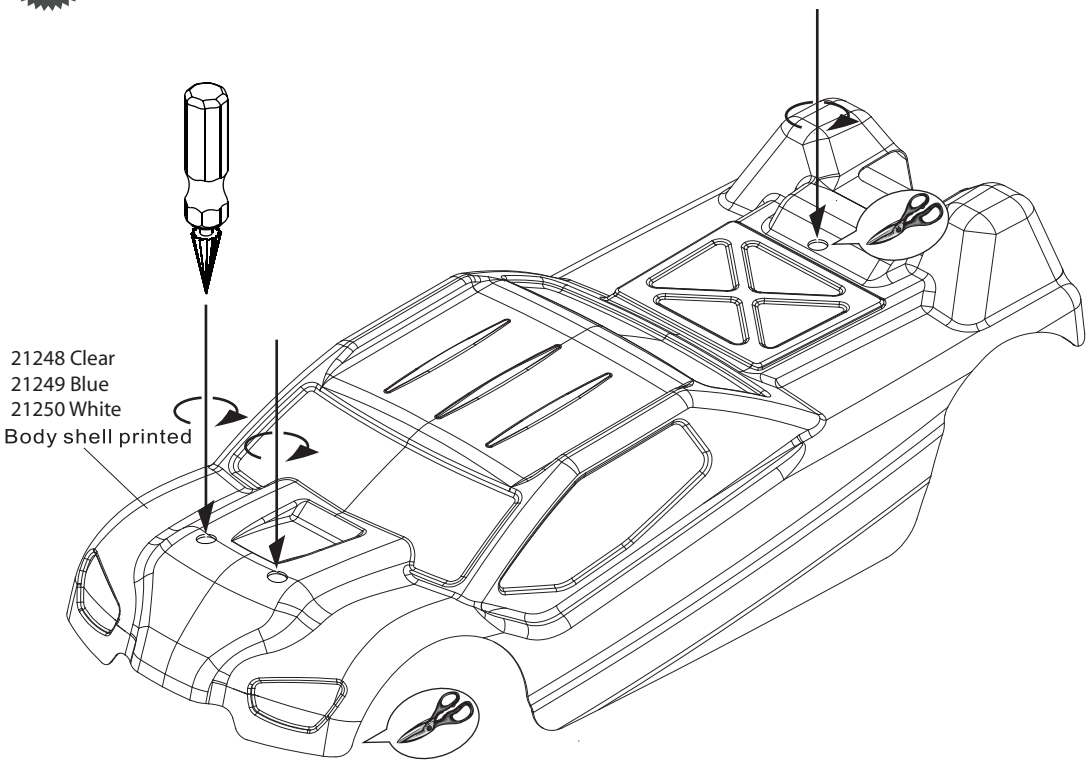
21071
Wing washer x2

67

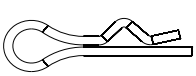


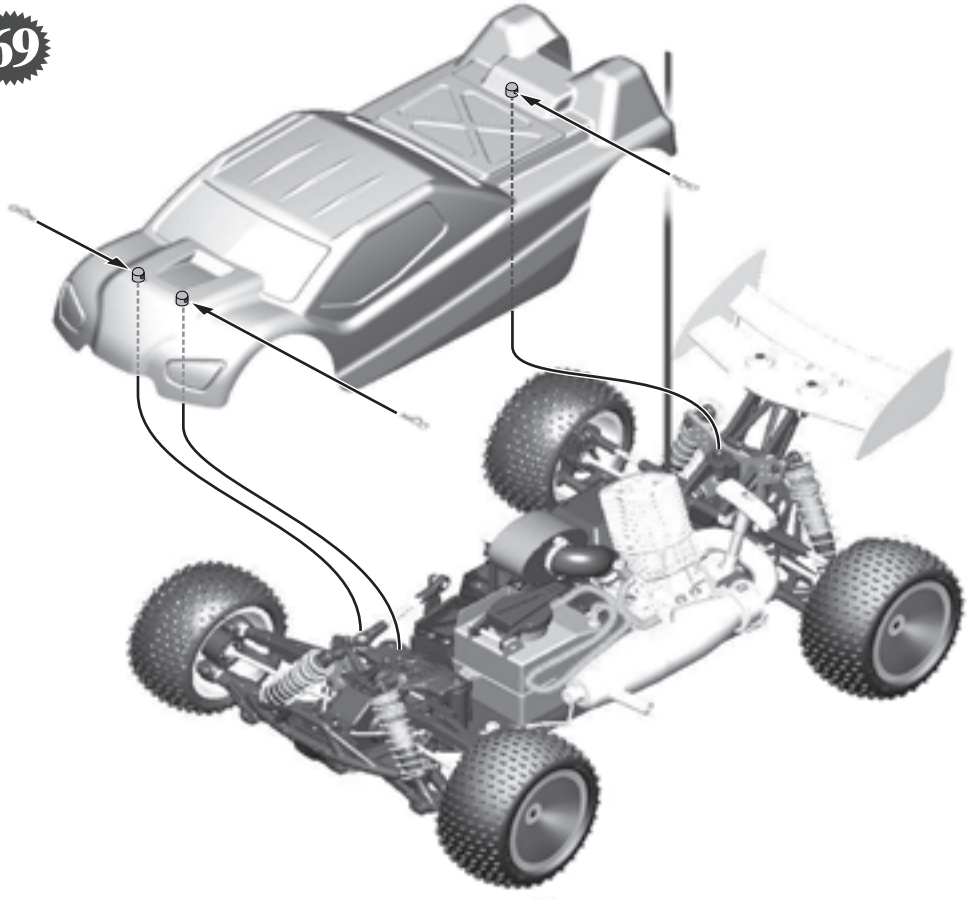
Assembly of the Body Shell Mounting

68



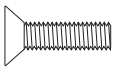
69


22086
Snap pin

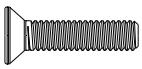


★ **FOLLOW STEPS A TO H FOR ELECTRIC VERSION TO INSTALL CENTER DIFF AND MOTOR MOUNT.**

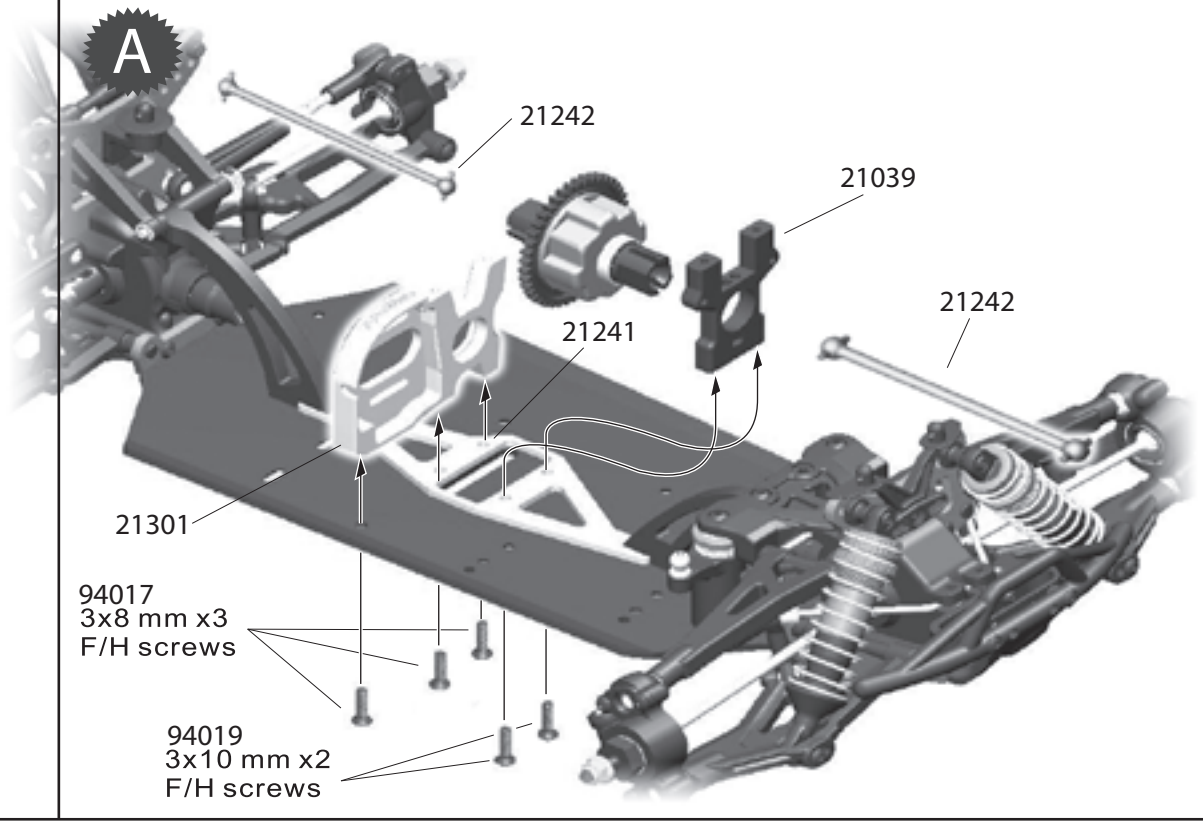
Assembly of the Center Diff with Alum Motor Plate



94017
3x8 mm x3
F/H screws

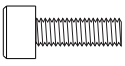


94019
3x10 mm x2
F/H screws



Assembly of Motor with Gear

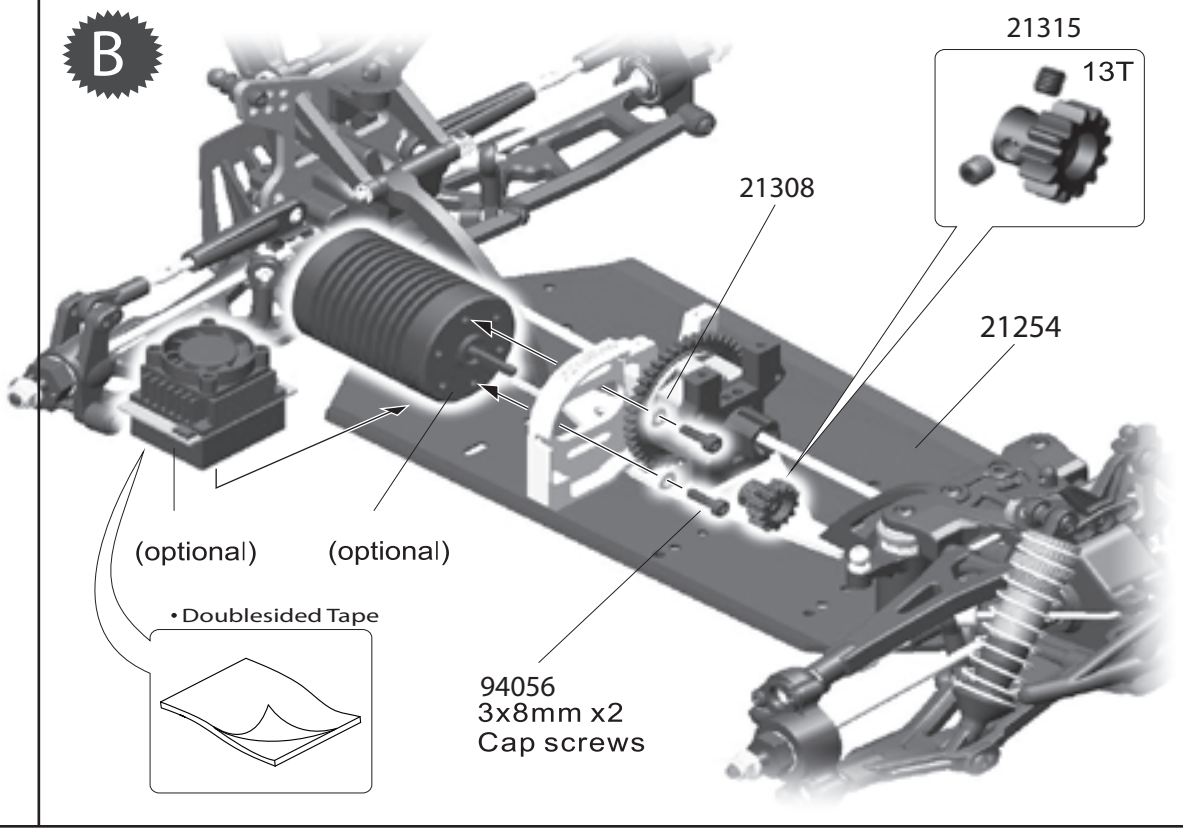
21308
3x8 mm x2
Screws



94056
3x8 mm x2
Cap screws

3x8x0.8 mm x2
Wash

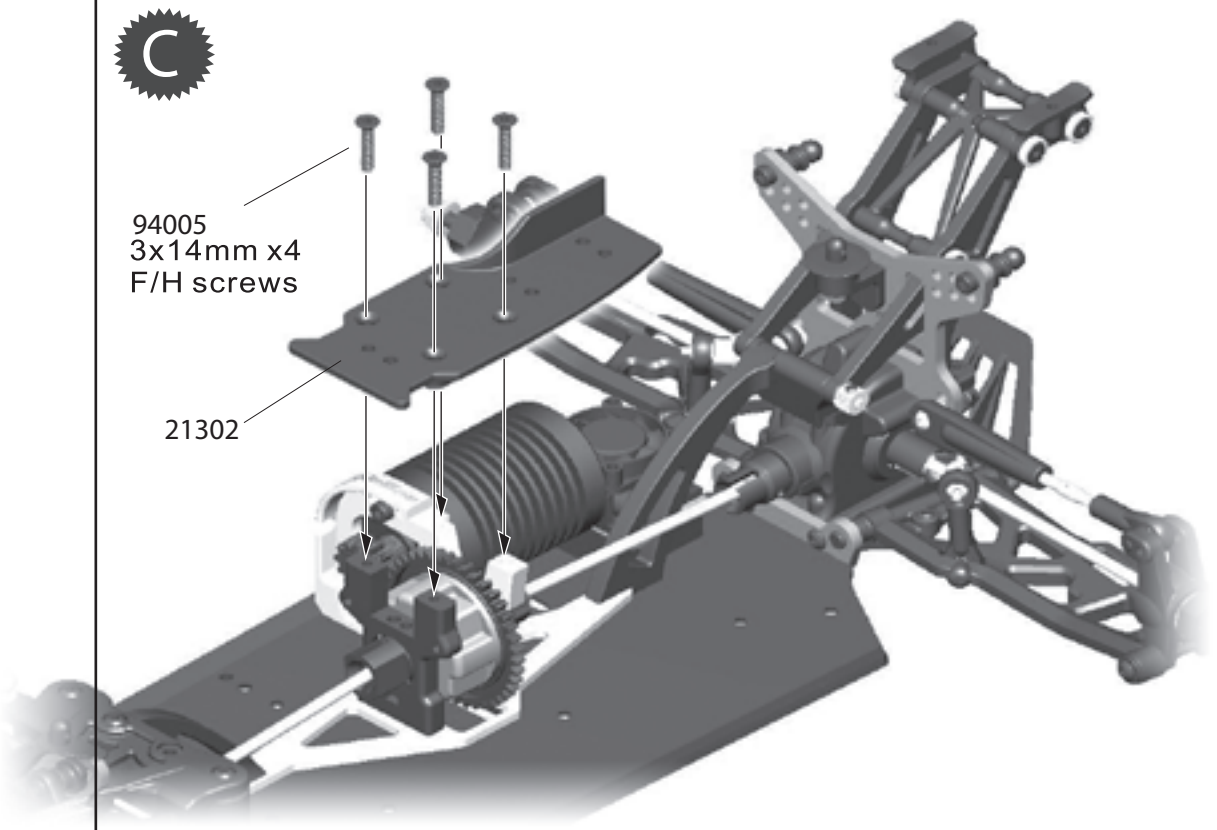
94034
4x4mm x 2
Set screw



Assembly of Upper Plate onto Diff Mount

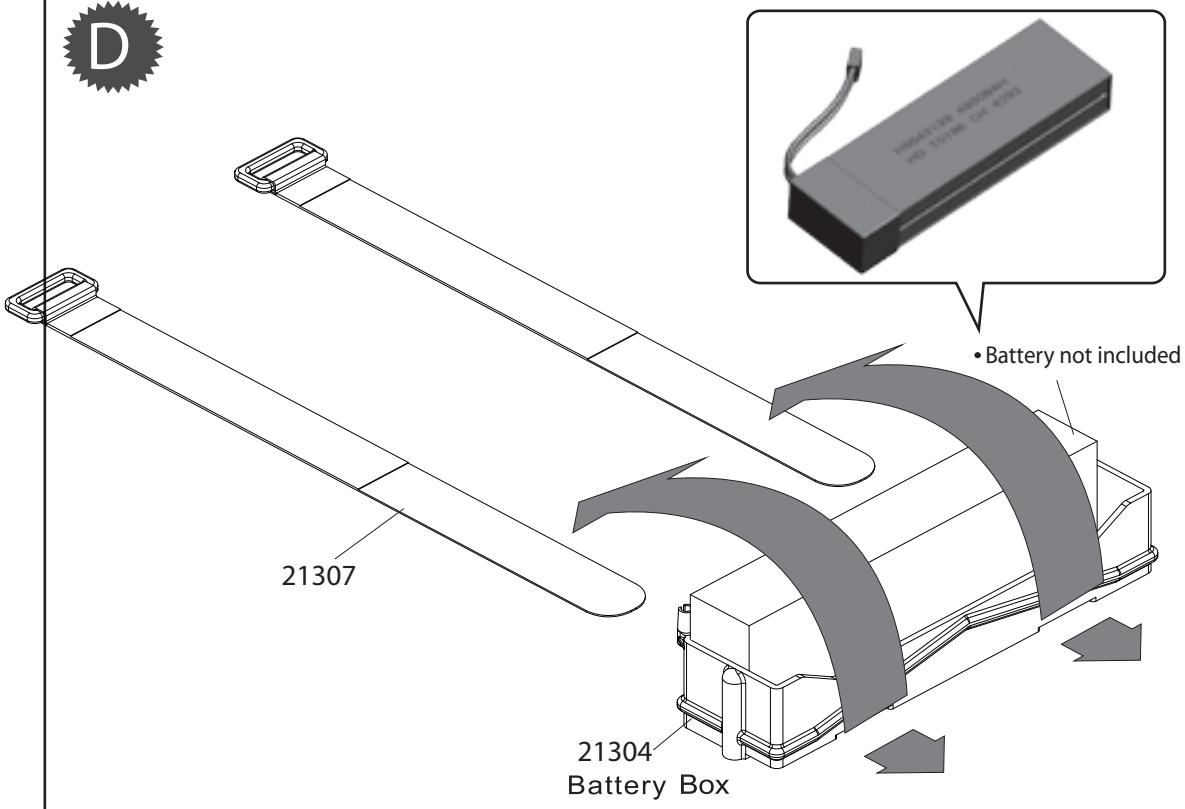
94005
3x14mm x4
F/H screws

C

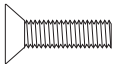


Assembly of Battery Box

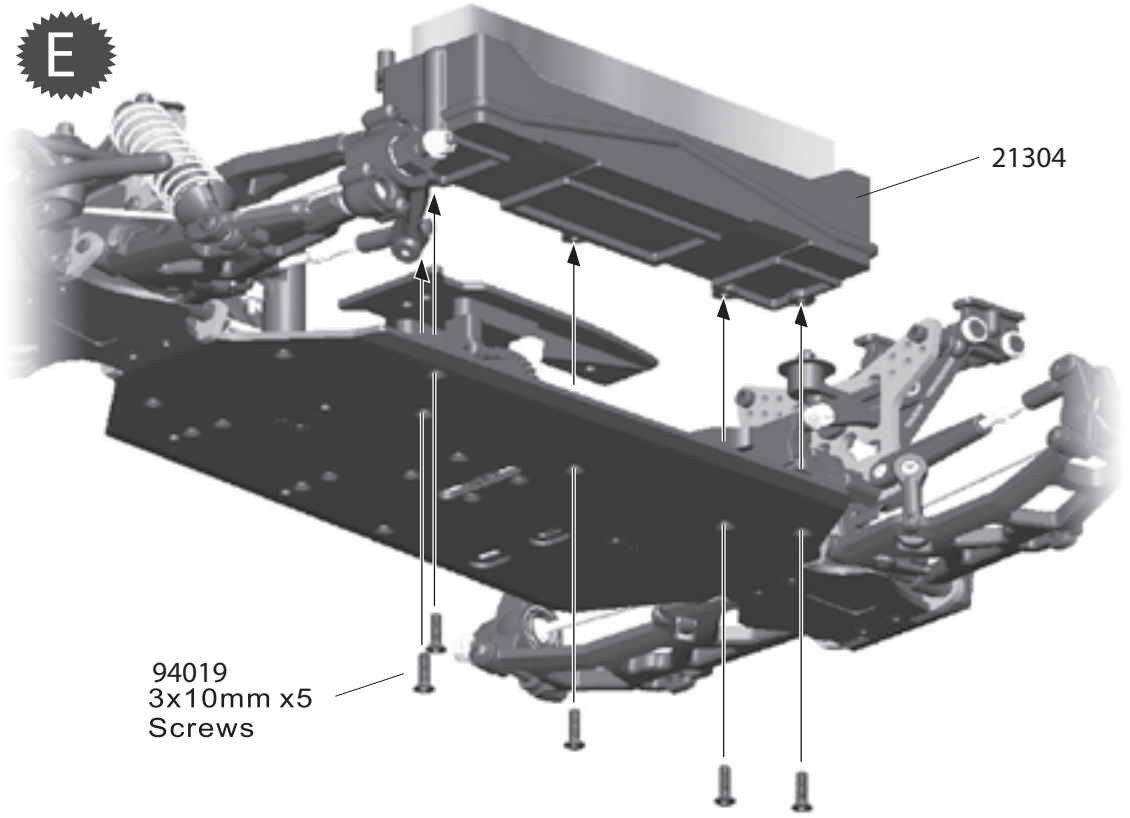
D



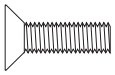
Assembly of Battery Box on Chassis



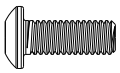
94019
3x10mm x5
F/H screws



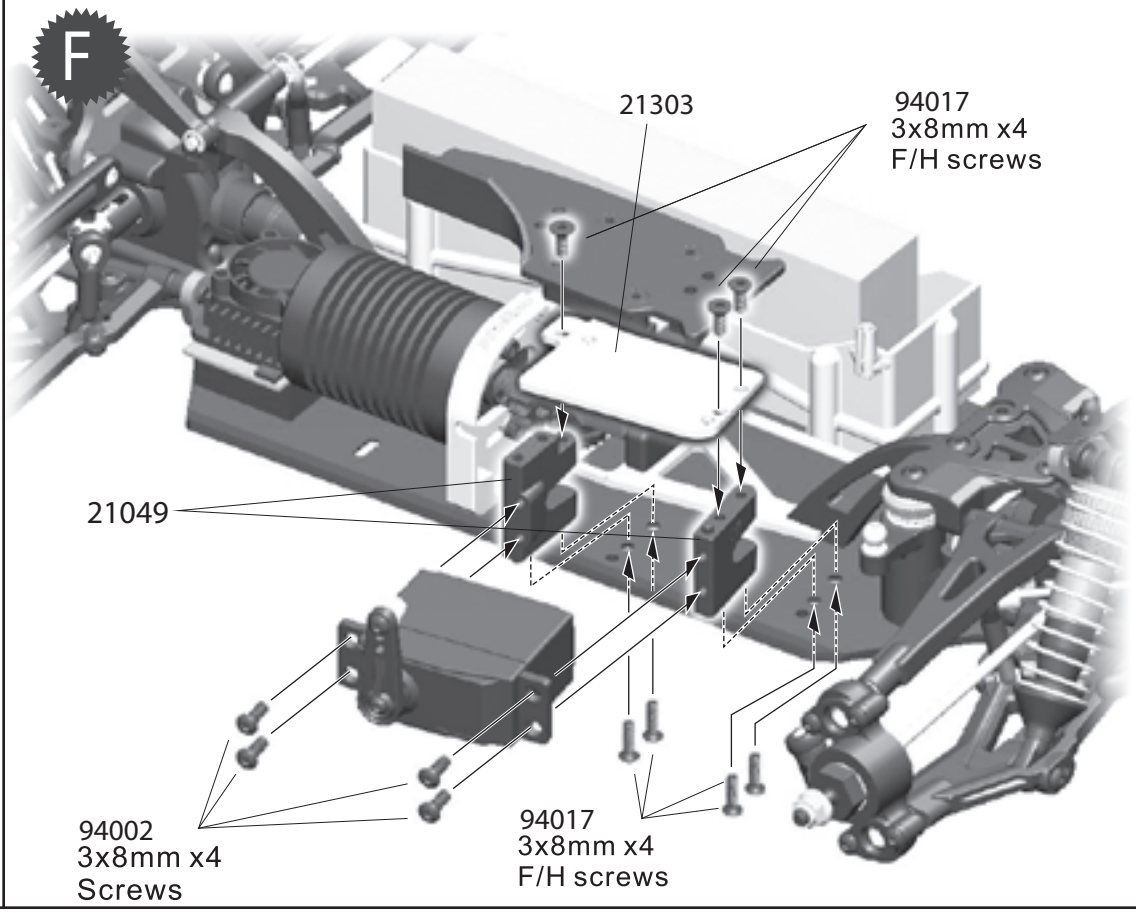
Assembly of Servo and Radio Tray



94017
3x8mm x4
F/H screws

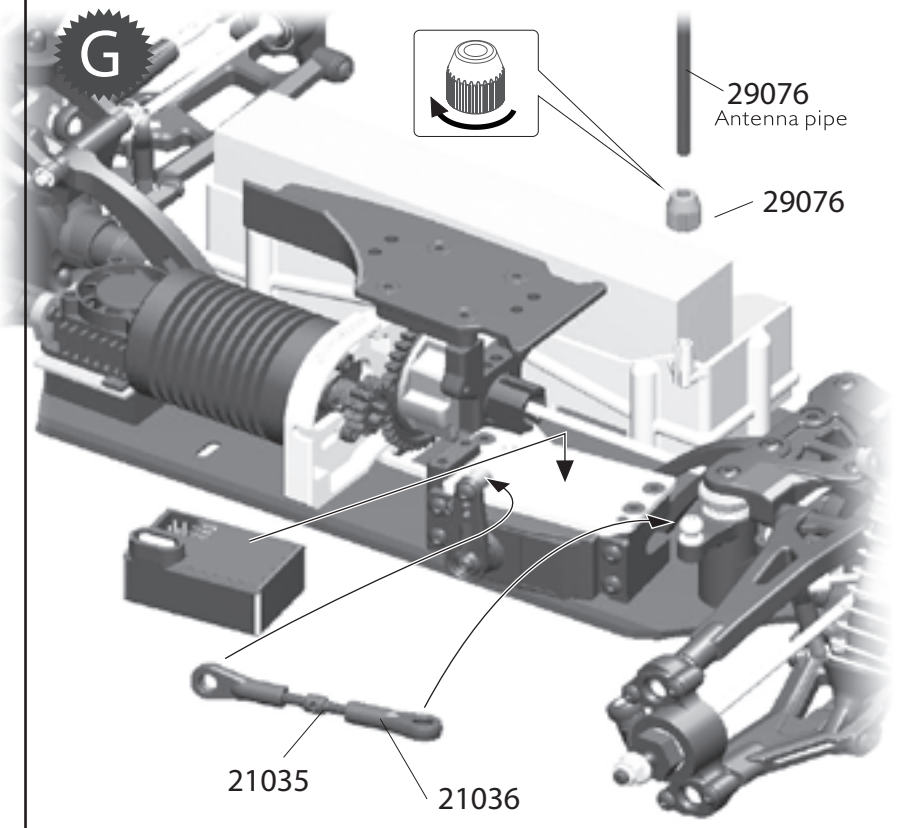


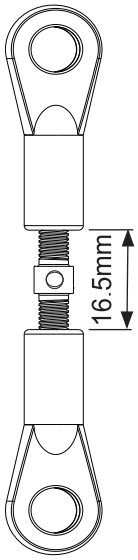
94002
3x8mm x4
Screws



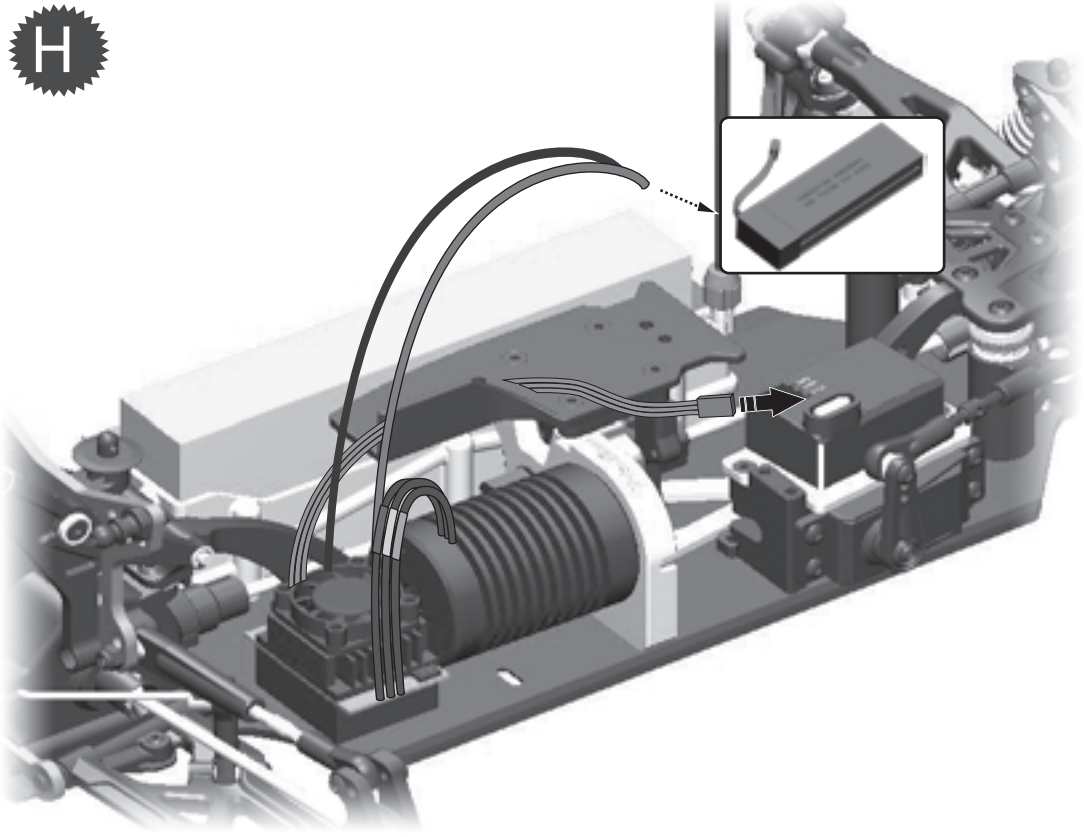
Assembly of Antenna Pipe

29076
Alum antenna moumt





Assembly of Wire



HYPER

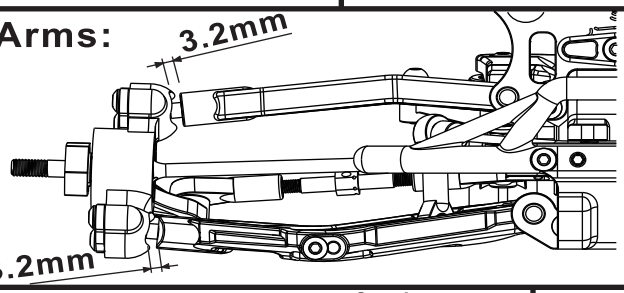
Name:
Date:
Track:

Factory setup

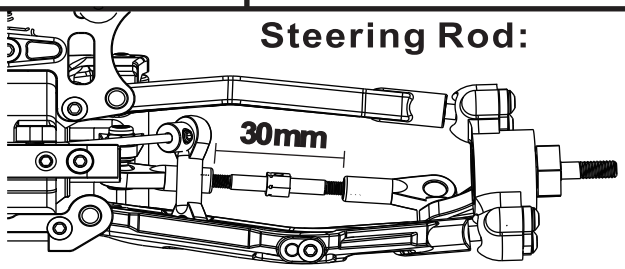
Length:	Front width:	Rear width:	Wheelbase:	Height:	Weight:

Engine	Diff.Oil	Clutch bell
Type:	Front:Grease	13T☐ 14T☑ other:
Gasket:	Center:Grease	Spur gear
Plug:	Rear:Grease	42T☑ other:
Fuel:		

Front Arms:

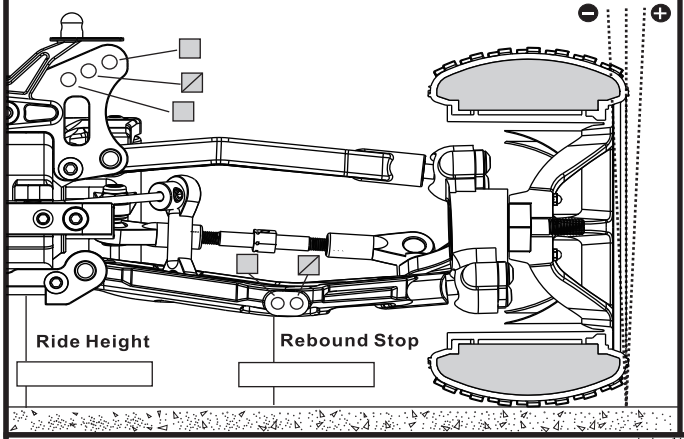


Steering Rod:



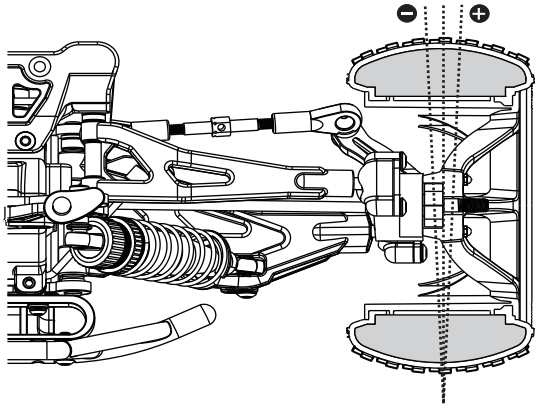
Front Suspension:

Camber Deg.

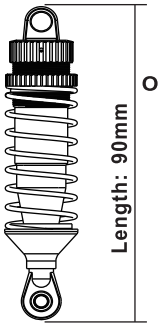


Front Toe angle:

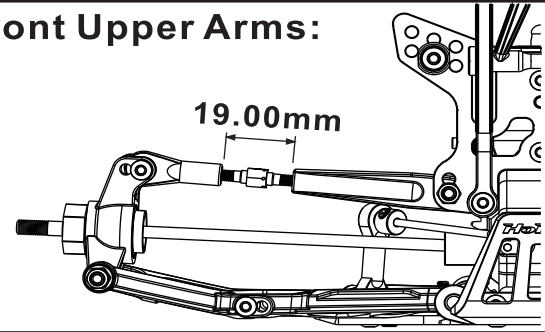
Deg.



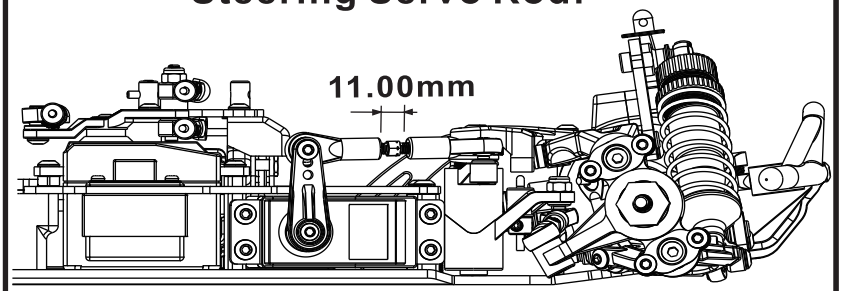
Front Shock:



Rear Front Upper Arms:

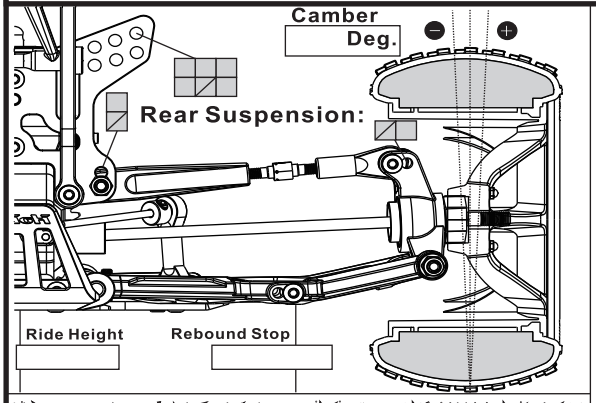


Steering Servo Rod:



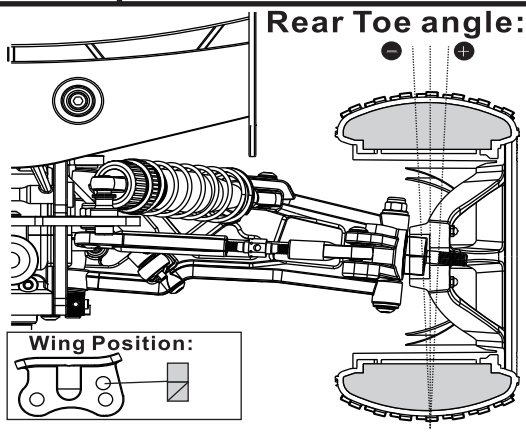
Rear Suspension:

Camber Deg.

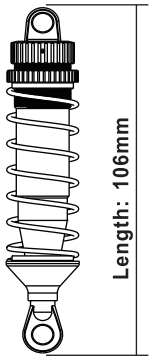


Rear Toe angle:

Deg.



Rear Shock:



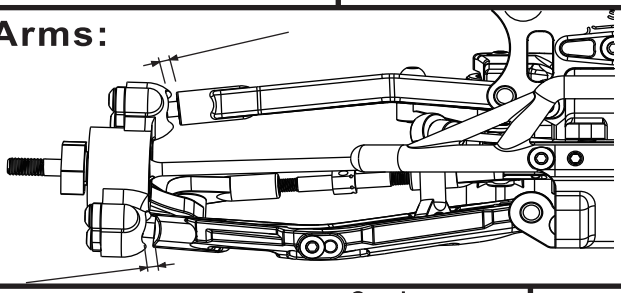
HYPER TT
1/10 HYPER TRANSFORMER TRUCK

Name:
Date:
Track:

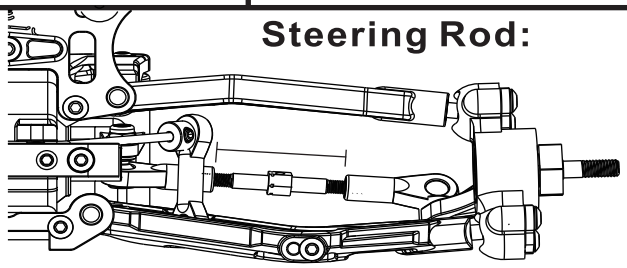
Length:	Front width:	Rear width:	Wheelbase:	Height:	Weight:

Engine	Diff.Oil	Clutch bell
Type:	Front:Grease	13T☐ 14T☐ other:
Gasket:	Center:Grease	Spur gear
Plug:	Rear:Grease	42T☐ other:
Fuel:		

Front Arms:

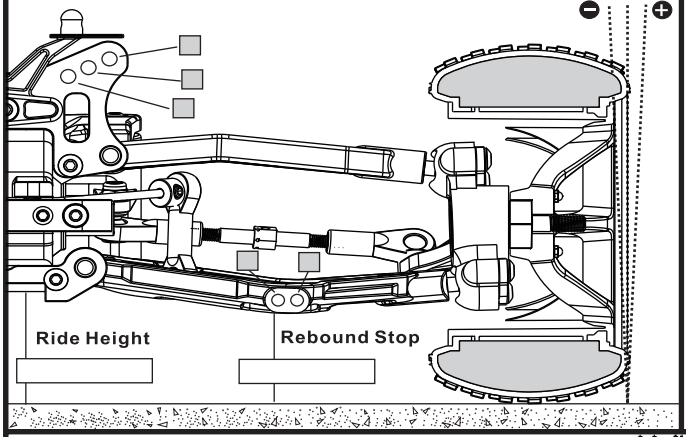


Steering Rod:



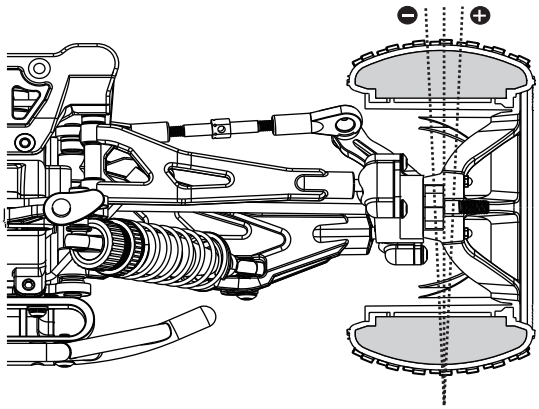
Front Suspension:

Camber
Deg.

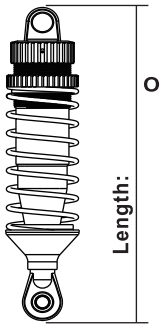


Front Toe angle:

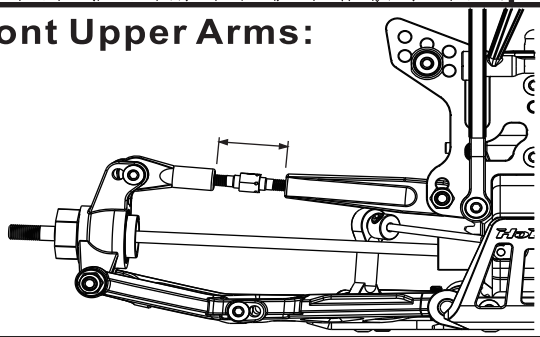
Deg.



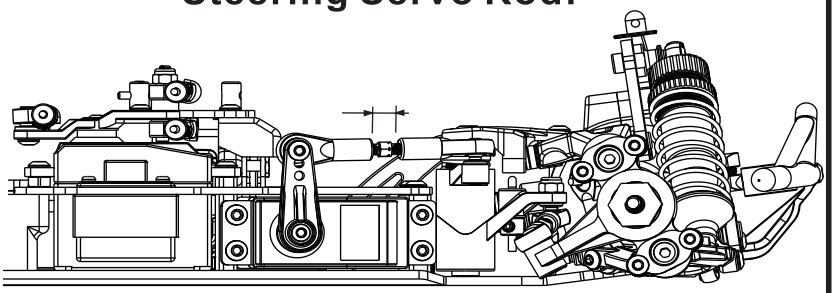
Front Shock:



Rear Front Upper Arms:

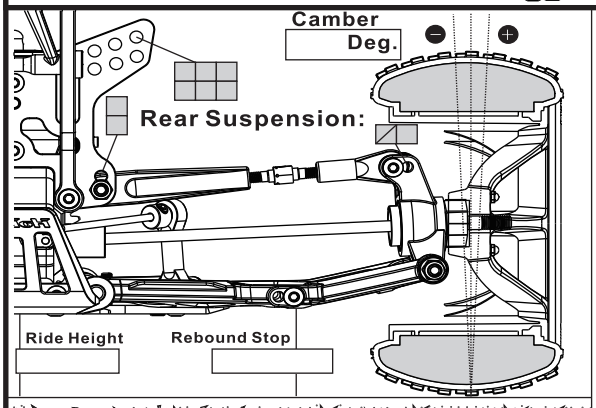


Steering Servo Rod:



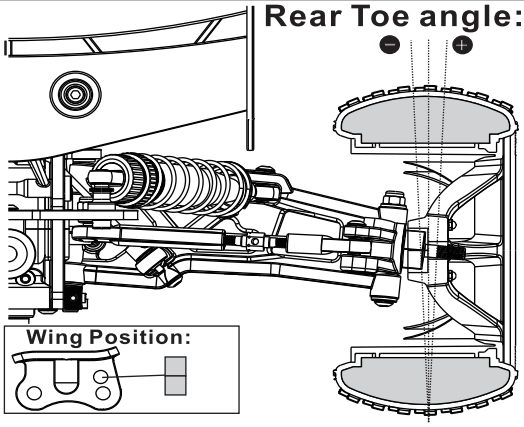
Camber
Deg.

Rear Suspension:

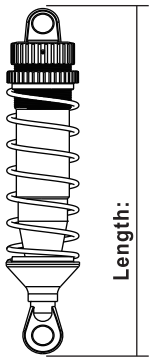


Rear Toe angle:

Deg.



Rear Shock:



HYPER TT NITRO

1/10 HYPER TRANSFORMER TRUCK

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	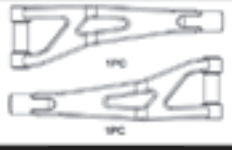		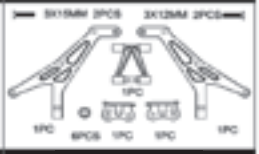		
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	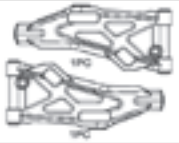		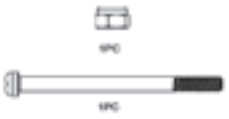		
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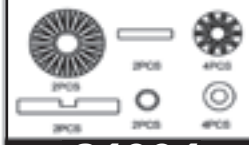					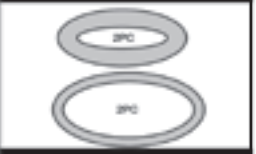
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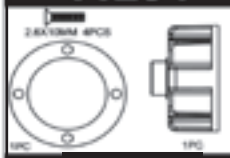	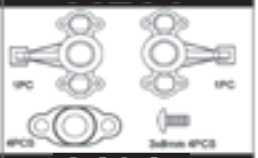	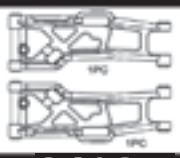			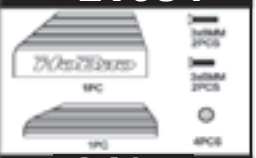
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				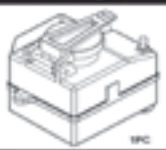	
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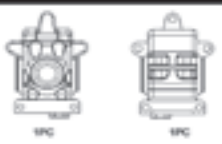					
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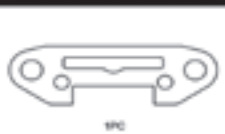		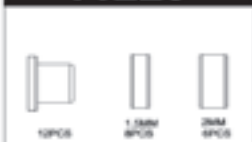			
21002	**21020**	**21030**	**21040**	**21050**	**21059**

HYPER TT NITRO

1/10 HYPER TRANSFORMER TRUCK

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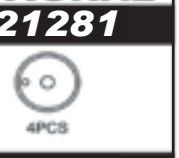
					21281 
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	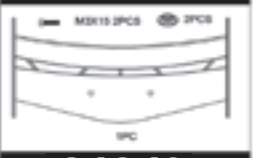				
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		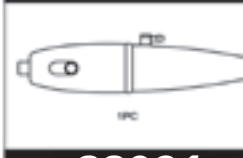			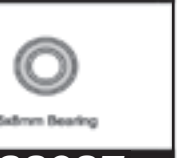
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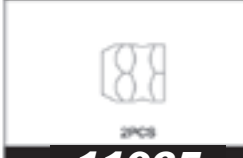
21064	**21246**	**10097**	**10282**		**21251**
					
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	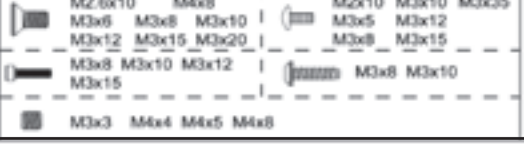				

HYPER TT PARTS LISTS

OFNA	DESCRIPTIONS	RETAIL
10010	CLUTCH SHOES, BLACK, 3 SHOES	13.95
10097	CLUTCH NUT SG HYPER	5.95
10101	SPRINGS,CLUTCH,GOLD 1.1M 3PCS	4.95
10177	FUEL LINE 2FT. GRAY/BLACK	1.95
10181	JOINT, EXHAUST TUBES, 2PC	6.95
10282	SWITCH COVER, SILICONE BLACK	3.95
10985	NYLOK FLANGE NUT,4mm BLUE 10P	8.95
11064	BEARING 5x8, 4PCS.	11.95
11065	BEARING 5x11, 6PCS. SC 10	17.95
11066	BEARING 10x15, 4PCS.SC 10	15.95
18075	BEARING, 6x13mm. 4PCS.SC 10	15.95
18077	BEARING, 5x10mm, 4PCS.	15.95
19018	BOOT,SHOCK SHAFT,SILICONE 4PCS	8.95
19031	BALL,STEEL,SHOCKS 4PCS.	7.95
19082	MOUNT, PIPE WIRE	5.95
21001	GEAR, CROWN HYPER 10SC	24.95
21002	GEAR, PINION HYPER 10SC	12.95
21003	GEAR, DIFF HYPER 10SC	12.95
21004	DIFF CASE W/GASKET HYPER 10SC	6.95
21005	DRIVE CUP CENTER HYPER 10SC	11.95
21006	DRIVE CUP F/R DIFF HYPER 10SC	12.95
21007	GEARBOX CASE HYPER 10SC	8.95
21008	SHOCK MOUNT FR HYPER MINI	6.95
21009	FRONT HINGE PIN HOLDER FR 10SC	5.95
21011	ARM, UPPER FRONT HYPER 10SC	6.95
21012	ARM, LOWER FRONT HYPER 10SC	9.95
21013	TOP PLATE FRONT HYPER MINI	5.95
21014	STEERING KNUCKLES FRONT H.10SC	10.95
21015	PILLOW BALL HYPER 10SC	16.95
21016	CVA, FRONT HYPER 10SC	34.95
21017	HEX HUB HYPER 10SC	6.95
21018	ANTI ROLL BAR SET HYPER 10SC	9.95
21019	BUMPER SET F/R HYPER MINI	9.95
21020	SHOCK TOWER REAR HYPER MINI	7.95
21021	HINGE PIN HOLDER REAR H.10SC	5.95
21022	ARM, UPPER REAR HYPER 10SC	6.95
21023	TURNBUCKLE, STEERING H. 10SC	10.95
21024	ARM, LOWER REAR HYPER 10SC	10.95
21025	UP-RIGHT REAR HYPER 10SC	7.95
21026	AXLES REAR HYPER 10SC	12.95
21027	DOGBONES REAR HYPER 10SC	12.95
21028	HINGE PIN SET HYPER 10SC	11.95
21029	HINGE PIN BUSHING HYPER 10SC	4.95
21030	BODY POST FRONT HYPER MINI	6.95
21031	WING MOUNT HYPER MINI	11.95
21033	SERVO SAVER SET HYPER 10SC	19.95
21034	SERVO SAVER ARM HYPER 10SC	6.95
21035	TURNBUCKLE REAR UPPER ARM 10SC	10.95
21036	TURNBUCKLE ENDS HYPER 10SC	5.95
21037	SPUR GEAR STEEL HYPER 10SC	24.95
21038	CENTER DIFF OUTPUT HYPER 10SC	14.95
21039	CENTER DIFF MOUNT HYPER 10SC	10.95
21040	BRAKE DISC HYPER MINI	7.95
21041	BRAKE CAM SET HYPER MINI	12.95
21042	CENTER TOP DIFF PLATE H. MINI	5.95
21044	FUEL TANK POST & LID PLR H.M.	3.95
21046	RECEIVER BOX HYPER MINI	12.95
21047	RADIO TRAY ALUM. HYPER MINI	10.95
21050	THROTTLE LINKAGE SET H.M.	10.95
21051	AIR FILTER TUBE HYPER MINI	6.95
21052	AIR FILTER SET HYPER MINI	8.95
21053	AIR FILTER FOAM REFILL H.M.	10.95
21054	ENGINE MOUNT HYPER MINI	19.95
21055	CLUTCHBELL 14T STOCK HYPER M.	24.95
21058	BRACE, CHASSIS FR/RR H. MINI	6.95
21059	HINGE PIN REAR 3x35mm H. 10SC	2.95
21062	SHOCK SHAFTS FR/RR HYPER MINI	10.95
21063	SHOCK BLADDER HYPER 10SC	6.95
21064	SHOCK BODY FRONT HYPER MINI	22.95
21065	SHOCK BODY REAR HYPER MINI	22.95
21066	SHOCK COLLAR THREADED H.10SC	12.95
21067	SHOCK PLASTIC PARTS HYPER 10SC	7.95
21068	SHOCK SPRINGS SET FR/RR H.MINI	12.95
21069	SHOCK, FRONT SET HYPER MINI	39.95
21070	SHOCK, REAR SET HYPER MINI	45.95
21077	BRAKE PADS	7.95
21078	BUSHING, 5x8mm HYPER 10SC	2.95
21079	SCREW SET HYPER 10SC	19.95
21123	SUSPENSION PLATE F/R SC	6.95
21141	SCREW SET HYPER 10SC	14.95
21159	SERVO GRAPHITE PLATE H10SC	9.95
21162	CNC 7075 HINGE PIN PL FR/RR SC	8.95
21163	CNC 7075 HINGE PIN HOLDER FR	8.95
21164	CNC 7075 REAR HING PIN HOLDER	8.95
21241	CENTER ALUM. DIFF PLATE TT	9.95
21242	DRIVE SHAFT CENTER ALUM. TT	12.95
21243	FUEL TANK FOR TT	12.95
21244	CHASSIS NITRO TT	48.95
21245	TIRES MOUNTED FOR TT 4PCS	39.95
21246	WHEELS WHITE FOR TT 4PCS	14.95
21247	TIRES FOR TT 4PCS	0
21248	BODY CLEAR FOR TT	28.95
21281	SHOCK PISTON OPTIONAL HYPER SC	7.95
21308	SCREW SET HYPER 10SC	7.95
22012	FLANGE BALL SET	12.95
22017	ALU. COLLAR, 8PCS	5.95
22028	SHOCK REPAIR SET SC10	8.95
22071	MANIFOLD	13.95
22075	MUFFLER PIPE	39.95
22084	SPRING FOR MANIFOLD	2.95
22086	SNAP PIN	3.95
22087	ALUM. WASHER 3mm	7.95
28061	FLYWHEEL HYPER 8 & HYPER 10SC	18.95
28087	BRAKE PADS SPECIAL COMPOUND H8	16.95
29073	WASHER, M3.1x6, 6PCS M6.5x8 6P	3.95

HYPER 10TT ELECTRIC/OPTIONS PARTS

21251	CNC FRONT CHASSIS BRACE FOR TT	N/A
21252	CNC REAR CHASSIS BRACE FOR TT	N/A
21253	TURNBUCKLE,HEX REAR UPPER ARM	9.95
21254	CHASSIS ELECTRIC TT	48.95
21159	SERVO GRAPHITE PLATE H10SC	9.95
21301	CNC ALUM MOTOR MOUNT H. 10SC	34.95
21302	CENTER DIFF UPPER PLATE H.10SC	7.95
21303	ALUM RADIO TRAY HYPER 10SC	7.95
21304	BATTERY BOX HYPER 10SC	14.95
21307	VELCRO BATTERY STRAP H.10SC	7.95
21311	PINION GEAR 15T-3MM	12.95
21312	PINION GEAR 16T-3MM	12.95
21313	HEAT SINK, CNC HYPER 10sc HV	19.95
21314	PINION GEAR 12T-3M	12.95
21315	PINION GEAR 13T-3MM	12.95
21316	PINION GEAR 11T-3MM	12.95
21317	SPUR GEAR DELRIN HYPER 10sc	18.95